

# VALLEY CENTRAL SCHOOL DISTRICT VALLEY CENTRAL MIDDLE SCHOOL 2023 CAPITAL PROJECT - PHASE 1

**ISSUED FOR BID:** 10/18/24

**CSARCH** - ARCHITECTS

BLAKE ENGINEERING, PLLC - M.E.P. ENGINEERS

PASSERO ASSOCIATES - SITE/CIVIL AND STRUCTURAL ENGINEERS

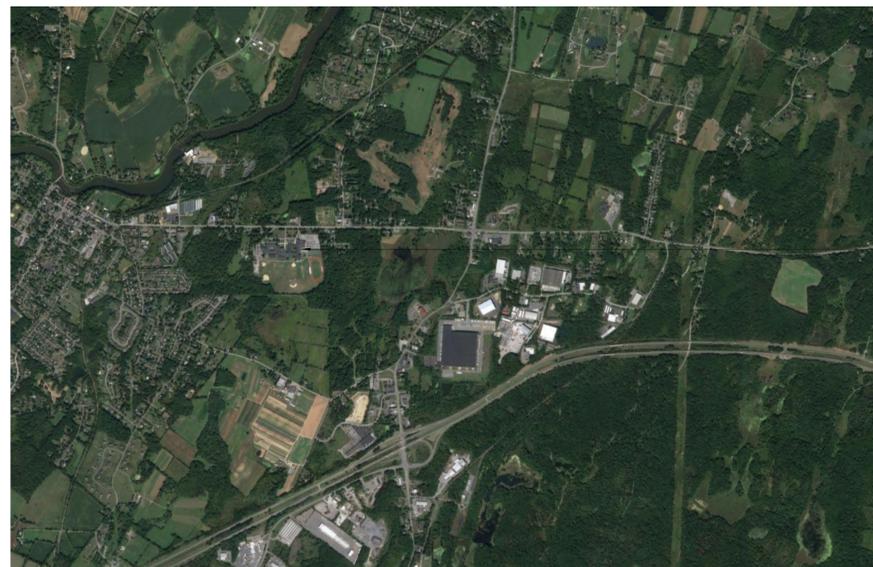
AECC ENVIRONMENTAL CONSULTING - HAZARDOUS MATERIALS DESIGNERS

STATE EDUCATION DEPARTMENT PROJECT CONTROL NUMBER:

2023 CAPITAL PROJECT - PHASE 1 44-13-01-06-0-016-023

THE DESIGN OF THIS PROJECT CONFORMS TO APPLICABLE PROVISIONS OF THE NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE, THE NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE, AND THE MANUAL OF PLANNING STANDARDS OF THE NEW YORK STATE EDUCATION DEPARTMENT.

CSArch PROJECT NO. 187-2302.01



Valley Central Middle School  
1175 NY-17K  
Montgomery, NY 12549

VICINITY MAP

NTS



DRAWING LIST	
<b>GENERAL DRAWINGS</b>	
VCMS G000	COVER & SHEET INDEX
VCMS G001	SYMBOLS, ABBREVIATIONS, MISC. AND PARTITION TYPES
VCMS G111	OVERALL FLOOR PLAN - FIRST FLOOR
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VCMS LS102	SMOKE ZONE PLANS
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VCMS M111	MECHANICAL PLAN
<b>ELECTRICAL GENERAL DRAWINGS</b>	
VCMS E001	ELECTRICAL NOTES, LEGENDS, & SCHEDULES
<b>ELECTRICAL DEMOLITION DRAWINGS</b>	
VCMS ED111	ELECTRICAL DEMOLITION PLAN
<b>ELECTRICAL DRAWINGS</b>	
VCMS E111	ELECTRICAL PLAN



EXPIRATION DATE: 02/28/2025

VOLUME 6 OF 8

NO.	DATE	DESCRIPTION

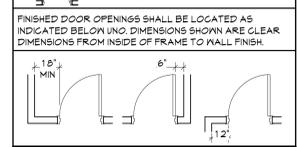
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Sheet Title  
**SYMBOLS, ABBREVIATIONS, MISC AND PARTITION TYPES**

Sheet No.  
**VCMS G001**  
CONSTRUCTION DOCUMENTS

**PLAN GRAPHICS LEGEND**

	EXISTING CONSTRUCTION TO REMAIN
	EXISTING CONSTRUCTION TO BE REMOVED
	NEW CONCRETE MASONRY WALL
	NEW METAL STUD WALL
	NEW BRICK VENEER
	EXISTING DOOR TO REMAIN
	EXISTING DOOR TO BE REMOVED
	NEW DOOR



- GENERAL NOTES**
- DIMENSIONS ARE GIVEN THIS (UNLESS NOTED OTHERWISE)
    - TO FACE OF MASONRY WALL
    - TO FACE OF METAL STUD
    - TO COLUMN CENTERLINES
    - TO FINISH FACE OF SOFFIT OR CEILING
    - FACE OF EXISTING CONSTRUCTION
  - DO NOT SCALE DRAWINGS. IF A DIMENSION IS NOT SHOWN, BRING IT TO THE ATTENTION OF THE ARCHITECT FOR VERIFICATION BEFORE PROCEEDING WITH THE ASSOCIATED WORK.
  - WALLS ON COLUMN LINES ARE CENTERED, UNO.
  - ALL DIMENSIONS RELATED TO EXISTING CONDITIONS SHALL BE VERIFIED IN FIELD. CONTRACTOR TO NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK IN THAT AREA.
  - LAYOUT OF TOILET FIXTURES AND ACCESSIBILITY CLEARANCES ARE SHOWN AS CLEAR DIMENSION. CONTRACTORS ARE REQUIRED TO COORDINATE LAYOUTS OF PARTITIONS, UTILITY CONNECTIONS, AND THICKNESS OF FINISHES TO ALLOW THESE CLEAR DIMENSIONS.
  - ALL ELEVATIONS (X-X') ARE REFERENCE FROM FIRST FLOOR ELEVATION.
  - ALL WOOD BLOCKING WITHIN 2'-0" OF GRADE SHALL BE PRESSURE TREATED.
  - ALL FLOOR PENETRATIONS SHALL BE SMOKE-SEALED AND/OR FIRE STOPPED, COORDINATE WITH DPMS FOR SMOKE / FIRE DAMPER REQUIREMENTS.
  - FOR INTERIOR PARTITION TYPES, REFER TO DRAWING 6001.
  - FOR DOOR SCHEDULE, REFER TO DRAWING A01.
  - FOR FINISH SCHEDULE, REFER TO DRAWING AF 111.
  - ALL EXPOSED SURFACES OF NEW PARTITIONS AND SOFFITS ARE TO BE FINISHED.
  - PROVIDE PATCH TO MATCH EXISTING FINISHES AT ALL WALL REMOVAL AREAS, COORDINATE WITH DEMOLITION DRAWINGS AND SPECIFICATIONS.
  - ALL CONSTRUCTION SHOWN IS NEW UNLESS NOTED OTHERWISE.

**ABBREVIATIONS**

ABBREVIATION	DESCRIPTION
ADA	AMERICANS WITH DISABILITIES ACT
ADD	ADDENDUM
ADMIN	ADMINISTRATIVE
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
APPROX	APPROXIMATE
ARCH	ARCHITECT / ARCHITECTURAL
AV	AUDIO VISUAL
BLDG	BUILDING
BOT OR B/	BOTTOM OF BASEMENT
BSMT	BASEMENT
CJ	CONTROL / CONSTRUCTION JOINT
CL	CENTERLINE
CLS	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONG	CONCRETE
CONF	CONFERENCE
CONT	CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
CORR	CORRIDOR
DEMO	DEMOLITION
DET	DETAIL
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
ED	EDUCATION
EFS	EXTERIOR INSULATION FINISH SYSTEM
ELECT	ELECTRIC / ELECTRICAL
ELEV	ELEVATION
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EQ	EQUAL
EQUIP	EQUIPMENT
EXST	EXISTING
EXP	EXPANSION JOINT
EXT	EXTERIOR
FIN	FINISH
FIN FL	FINISH FLOOR
FIXT	FIXTURE
FLR	FLOOR
FRT	FIRE-RETARDANT-TREATED MATERIAL
FTG	FOOTING
G	GROUND
GA	GAUGE
GAL	GALLON(S)
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GMB	GYPNUM WALL BOARD
GMBB	GYPNUM WALL BOARD SOFFIT
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HR	HOUR
HT	HEIGHT
HTG	HEATING
HVAC	HEATING/VENTILATING/AIR CONDITIONING
ID	INSIDE DIMENSION
IN	INCH
INT	INTERIOR
JAN	JANITOR
JC	JANITOR'S CLOSET
JST	JOIST
JT	JOINT
LAB	LABORATORY
LB	FOUND
LIN	LINEAR
LVL	LEVEL
MAN	MANUAL
MAS	MASONRY
MAX	MAXIMUM
MDF	MEDIUM DENSITY FIBERBOARD
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MID	MIDDLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTL	METAL
NA	NOT APPLICABLE
NG	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OPT	OPTIONAL
OVR	OVERALL
OZ	OUNCE
PERIM	PERIMETER
PLG	PLASTIC LAMINATE
PLB	PLUMBING
PLAS	PLASTER
PLY	PLYWOOD
PNL	PANEL
PNT	PAINT
POLYISO	POLYISOCYANURATE
PPT	PRESSURE PRESERVATIVE TREATED
FR	FAIR
PREP	PREPARATORY
PTH	PARTITION
PVC	POLY(VINYL) CHLORIDE
RAD	RADIUS
REQD	REQUIRED
RM	ROOM
RND	ROUND
RO	ROUGH OPENING
SCH	SCHEDULED
SECT	SECTION
SF	SQUARE FEET
SIM	SIMILAR
SPEC	SPECIFICATION
SG	SQUARE
SS	STAINLESS STEEL
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STL	STEEL
STR	STRUCTURE
STRUC	STRUCTURAL / STRUCTURE
SUSP	SUSPENDED
SAC	SUSPENDED ACOUSTICAL CEILING
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TECH	TECHNOLOGY
TEMP	TEMPORARY
TEMPD	TEMPERED
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TYF	TYPICAL
UL UNO	UNDERWRITERS LABORATORY UNLESS NOTED OTHERWISE
VERT	VERTICAL
VEST	VESTIBULE
VF	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
WD	WOOD
WGT	WOOD PRESERVED-TREATED MATERIAL WEIGHT
YD	YARD

**ARCHITECTURAL LEGEND**

**MATERIAL INDICATIONS**

	EARTH
	GRANULAR FILL
	BRICK
	CONCRETE MASONRY UNIT
	CONCRETE
	GROUT
	ROUGH WOOD BLOCKING
	SHIM
	FINISH WOOD
	PLYWOOD
	SHEATHING
	RIGID INSULATION
	BATT INSULATION
	SPRAY FOAM INSULATION
	EPS INSULATION
	STEEL

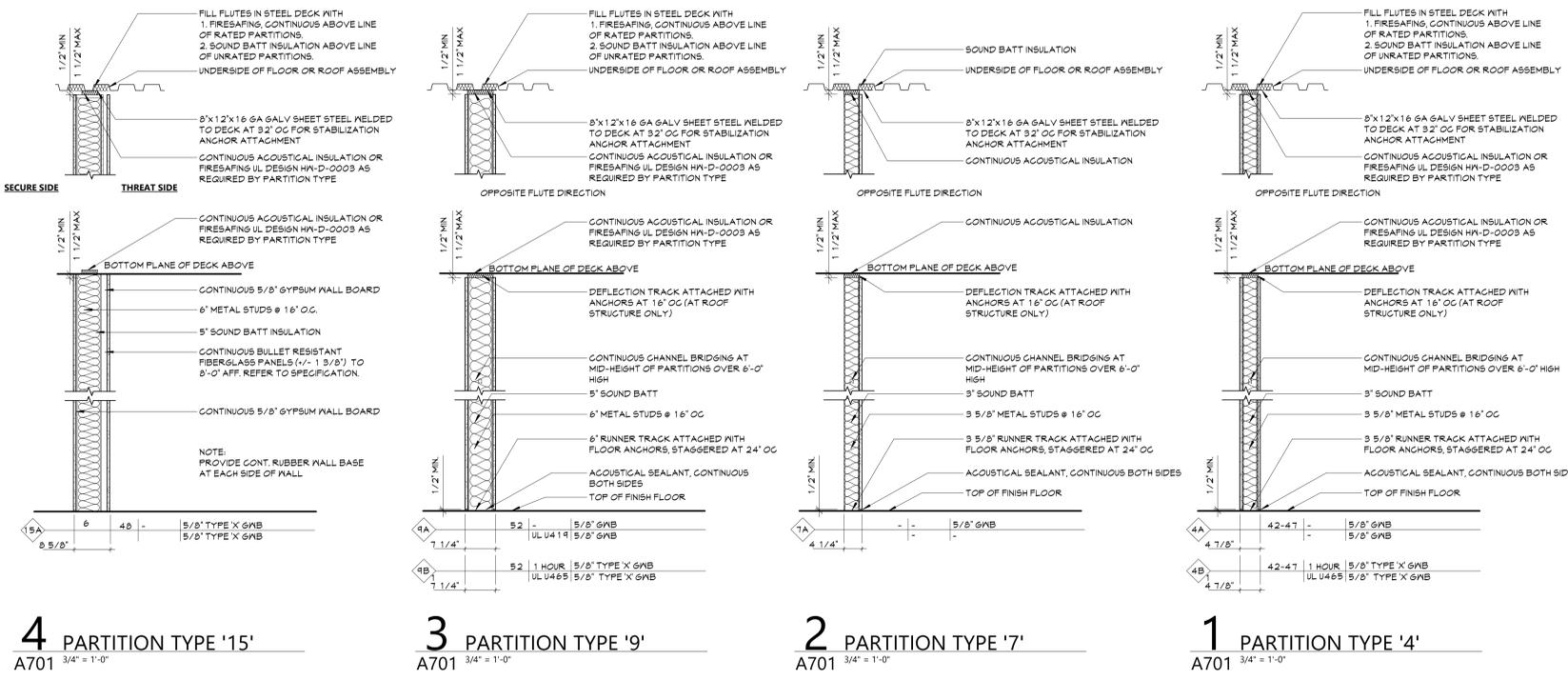
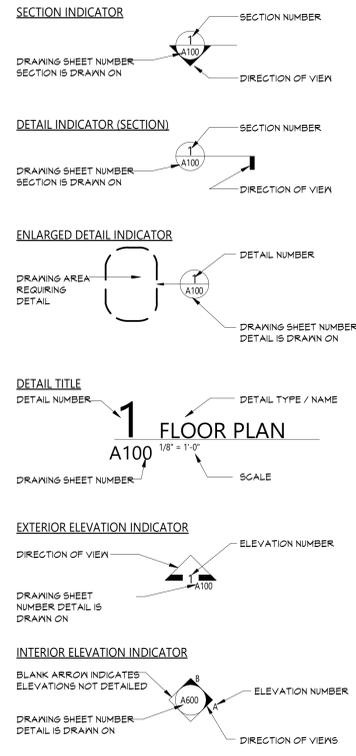
**DIMENSIONING CONVENTIONS**

	FACE OF STUD OR CMU
	COLUMN CENTER LINE

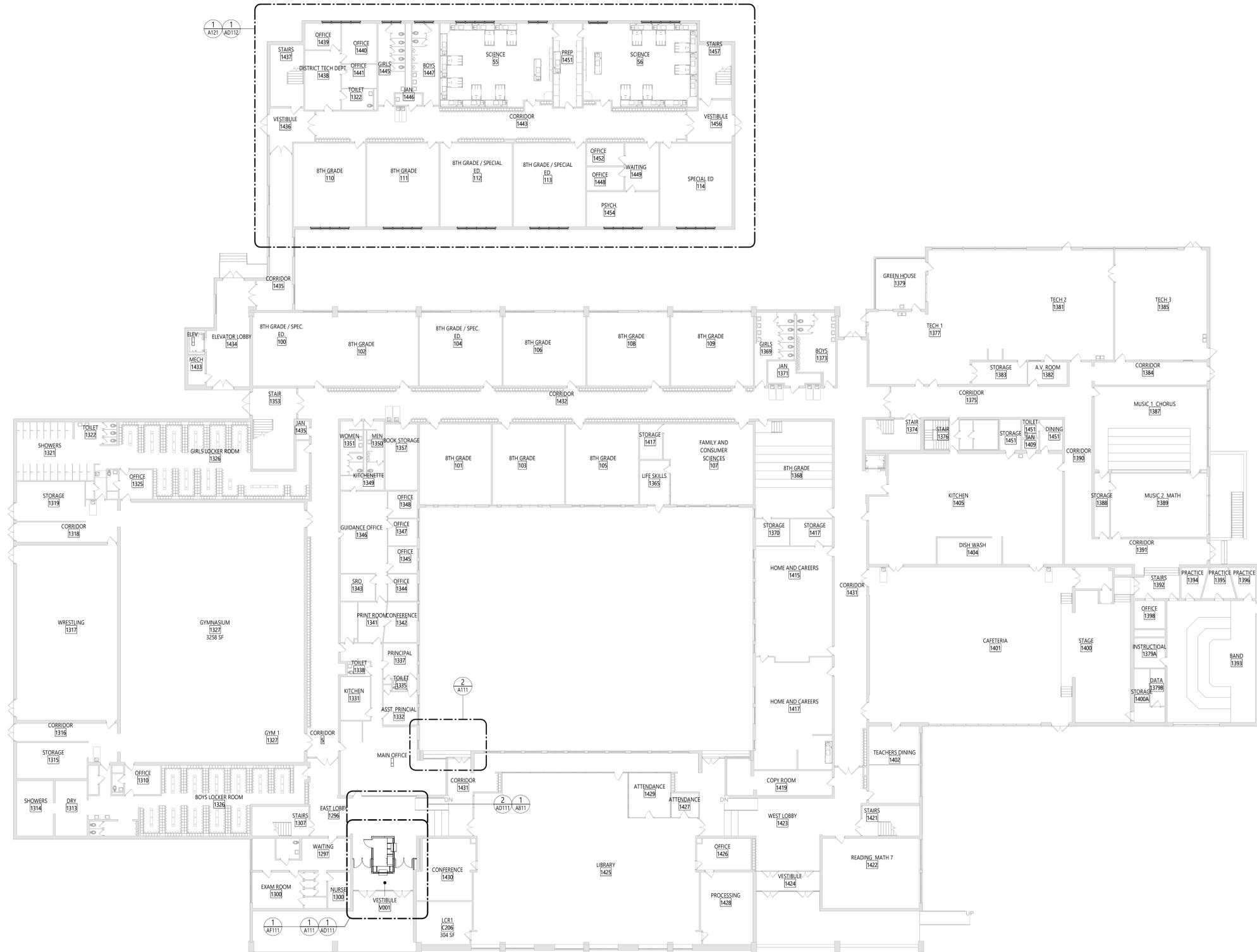
**SYMBOLS**

	ROOM NAME
	ROOM NUMBER
	AREA OF ROOM
	DOOR NUMBER, REFER TO A100 DRAWINGS
	WINDOW TAG, REFER TO A100 DRAWINGS
	BORROWED LIGHT NUMBER, REFER TO A100 DRAWINGS
	STOREFRONT / CURTAIN WALL NUMBER, REFER TO A100 DRAWINGS
	COLUMN GRID DESIGNATION
	PARTITION TAG, REFER TO A100 DRAWINGS
	HOUR RATING OF PARTITION
	ADDITIONAL NOTES FOR PARTITION
	REVISION NUMBER
	KEY NOTE, NEW WORK
	KEY NOTE, DEMOLITION WORK
	ELEVATION TAG
	HANDICAPPED ACCESSIBLE ELEMENT OR FIXTURE
	ROOM NAME
	INTERIOR FINISH TAG, REFER TO A100 DRAWINGS
	WALL FINISH
	BASE FINISH
	FLOOR FINISH

**DETAIL INDICATOR LEGEND**



GENERAL DESIGN LOAD REQUIREMENTS			
LOADING TYPE	BUILDING CODE SECTION	OCCUPANCY/USE/LOCATION	REQUIRED
MINIMUM UNIFORM DISTRIBUTED LIVE LOADS	2020 BUILDING CODE OF NEW YORK STATE TABLE 1607.1	SCHOOLS - CLASSROOMS	40 PSI
		SCHOOLS - FIRST FLOOR CORRIDORS	100 PSI
		SCHOOLS - CORRIDORS ABOVE FIRST FLOOR	80 PSI
GROUND SNOW LOADS	2020 BUILDING CODE OF NEW YORK STATE FIGURE 1608.2	OFFICE BUILDINGS - OFFICES	50 PSI
		ROOFS - ORDINARY/FLAT (NON-OCCUPIABLE)	40 PSI
FLAT ROOF SNOW LOADS	2020 BUILDING CODE OF NEW YORK STATE FIGURE 1608.2	ORANGE COUNTY MONTGOMERY, NY	28 PSI
DESIGN WIND SPEEDS	2020 BUILDING CODE OF NEW YORK STATE FIGURE 1609.3	RISK CATEGORY III MONTGOMERY, NY	130 VMFH



Consultant

VALLEY CENTRAL SCHOOL DISTRICT  
VALLEY CENTRAL MIDDLE SCHOOL  
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Sheet Title

OVERALL FLOOR PLAN - FIRST FLOOR

Sheet No.  
VCMS  
G111

CONSTRUCTION DOCUMENTS

1 OVERALL FLOOR PLAN - FIRST FLOOR  
G111 1/16" = 1'-0"



DATE	DESCRIPTION

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Sheet Title  
LIFE SAFETY PLANS

Sheet No.  
VCMS  
LS101

### LIFE SAFETY PLAN LEGEND

- Primary Exit
- Secondary Exit
- Rescue Window (Secondary Exit)
- Accessible Exit
- Rescue Assistance Station/Area of Refuge
- Number of Occupants per Table 1004.1.2 (Actual Number of Occupants)
- Required Exit Width for Door Based on (Occupant \* 0.2)
- Required Exit Width for Stairs Based on (Occupant \* 0.3)
- Exit Path of Travel (Start - End)
- Exit Sign, Wall Mounted, Illuminated Face Indicated by Shading, Arrow Indicates Directional Arrow Required
- Exit Sign, Ceiling Mounted, Illuminated Face Indicated by Shading, Arrow Indicates Directional Arrow Required

ABBREVIATIONS

- AED: Automated External Defibrillator
- DF: Drinking Fountain
- ESB: Emergency Eyewash Station
- FE: Fire Extinguisher, Wall Mount
- FCG: Fire Extinguisher Cabinet

### SMOKE SEPARATION LEGENDS

- Smoke Barrier

### FIRE SEPARATION LEGEND

- 1 Hour Rated Fire Partition
- 1 Hour Rated Fire Barrier
- 2 Hour Rated Fire Barrier
- 2 Hour Rated Fire Wall

### CODE NARRATIVE

ORIGINAL CONSTRUCTION:  
CONSTRUCTION TYPE: IB  
BASEMENT AREA: 6,536 SF GROSS  
FIRST FLOOR AREA: 16,939 SF GROSS  
SECOND FLOOR AREA: 16,939 SF GROSS

ADDITION CONSTRUCTION: 2023  
CONSTRUCTION TYPE: IB  
BASEMENT FLOOR AREA: 6,536 SF GROSS  
FIRST FLOOR AREA: 102,140 SF GROSS  
SECOND FLOOR AREA: 75,084 SF GROSS

### CLASSIFICATION OF WORK:

- LEVEL 1 ALTERATION: xxx SF
- LEVEL 2 ALTERATION: xxx SF

### OCCUPANT LOAD

ACCESSORY STORAGE AREA, MECH. ROOM	300 GROSS
ASSEMBLY W/ FIXED SEATS	SECT. 1004.6
ASSEMBLY W/ OUT FIXED SEATS	
CONCENTRATED	7 NET
UNCONCENTRATED	15 NET
BUSINESS AREAS	150 GROSS
CLASSROOM AREAS	20 NET
VOCATIONAL ROOM AREAS	50 NET
LOCKER ROOMS	50 GROSS
EXERCISE ROOMS	50 GROSS
KITCHENS, COMMERCIAL	200 GROSS
READING ROOMS	50 GROSS
STAGES AND PLATFORMS	15 NET

### STRUCTURAL LOAD

RISK CATEGORY: III

DEAD LOADS:  
CONCRETE SLAB: xxx PSF

LIVE LOADS:  
SLAB: xxx PSF

RAIN LOADS:  
15-MINUTE RAINFALL INTENSITY: xxx IN/H  
60-MINUTE RAINFALL INTENSITY: xxx IN/H

SNOW LOADS:  
GROUND SNOW LOAD: xx PSF  
FLAT ROOF SNOW LOAD: xxx PSF  
SLOPED ROOF SNOW LOAD: xxx

WIND LOADS:  
ULTIMATE WIND SPEED: xxx MPH  
EXPOSURE CATEGORY: X

SEISMIC DESIGN DATA:  
SITE CLASS: X  
SEISMIC DESIGN CATEGORY: X

### FIRE AREA MODIFICATIONS (NYS SECTION 506)

A<sub>3</sub> ALLOWABLE AREA PER FLOOR (SQUARE FEET)

A<sub>1</sub> TABULAR ALLOWABLE AREA FACTOR (NS, S1, S3R OR S13D VALUE) IN ACCORDANCE WITH SECTION 506.2 (SQUARE FEET)

I<sub>f</sub> AREA FACTOR INCREASE DUE TO FRONTAGE AS CALCULATED IN ACCORDANCE WITH SECTION 506.3 (PERCENT)

N<sub>s</sub> TABULAR ALLOWABLE AREA FACTOR IN ACCORDANCE WITH TABLE 506.2 FOR NONSPRINKLERED BUILDING

N<sub>a</sub> ACTUAL NUMBER OF BUILDING STORIES ABOVE GRADE PLANE, NOT TO EXCEED THREE

W CALCULATED WIDTH OF PUBLIC WAY OR OPEN SPACE (FEET) IN ACCORDANCE WITH SECTION 506.3.2

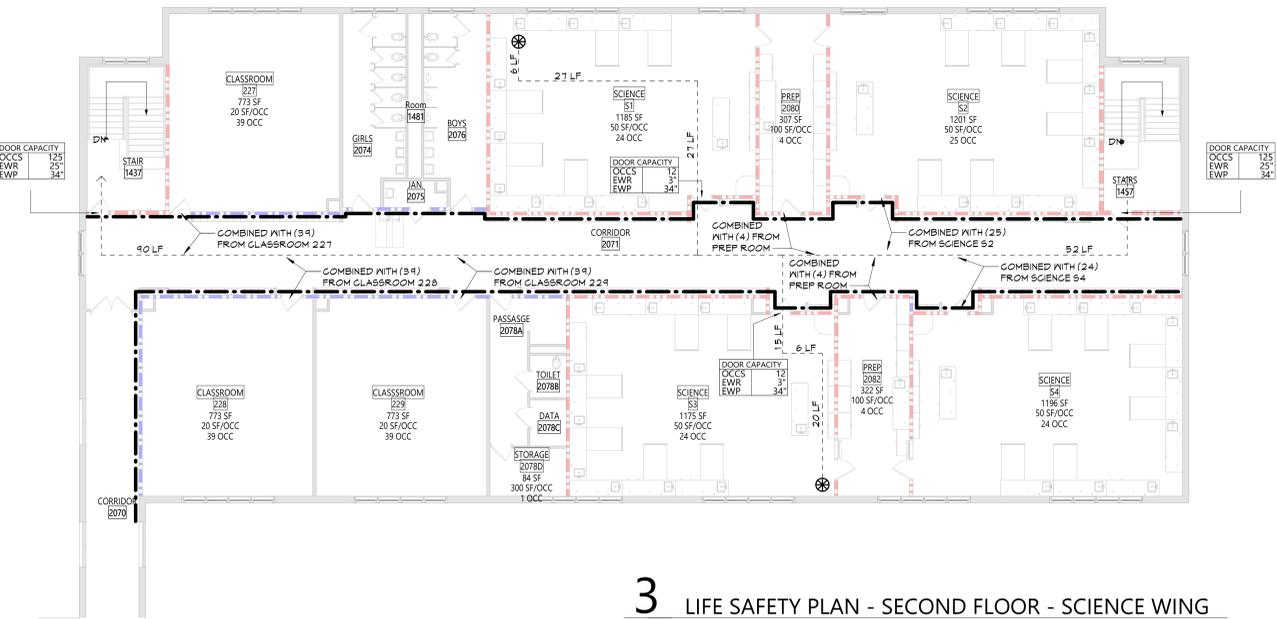
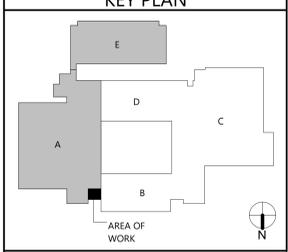
L<sub>n</sub> LENGTH OF A PORTION OF THE EXTERIOR PERIMETER WALL

W<sub>n</sub> WIDTH (≥ 20 FEET) OF A PUBLIC WAY OR OPEN SPACE ASSOCIATED WITH THAT PORTION OF THE EXTERIOR PERIMETER WALL

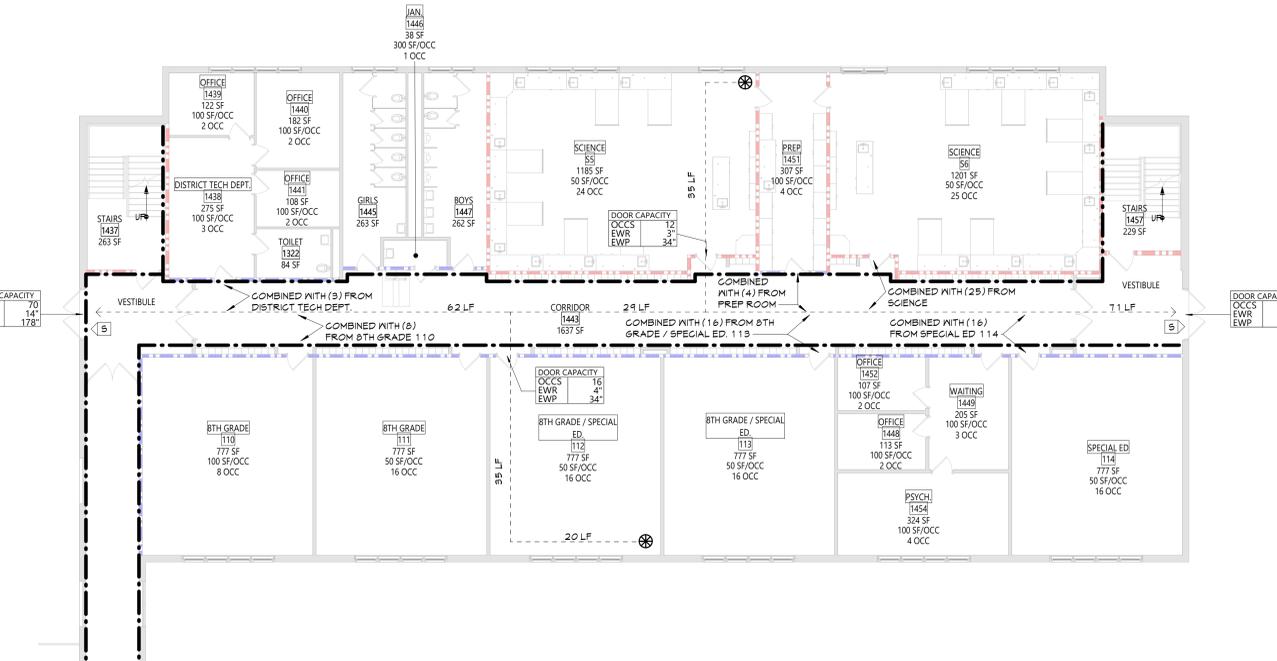
F BUILDING PERIMETER THAT FRONTS ON A PUBLIC WAY OR OPEN SPACE HAVING A WIDTH OF 20 FEET OR MORE

P PERIMETER OF ENTIRE BUILDING (FEET)

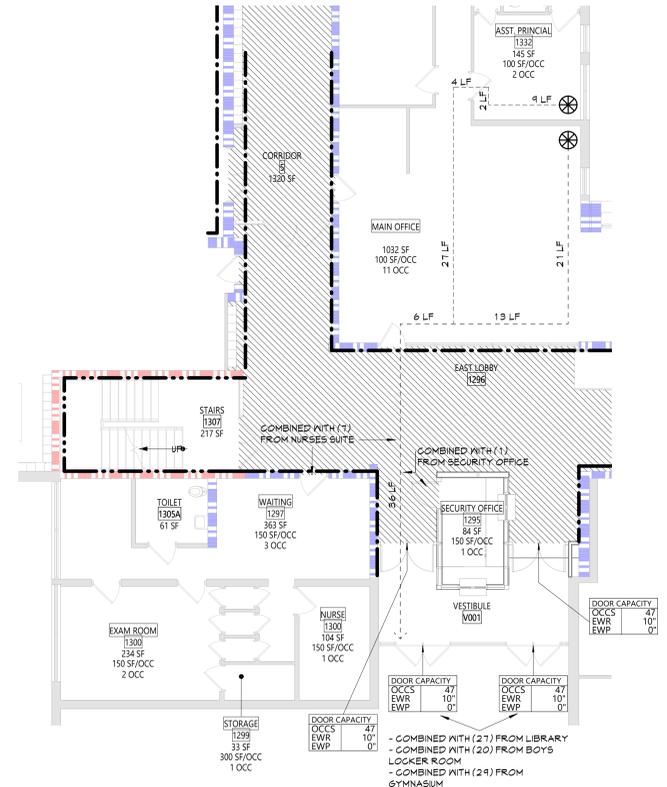
I<sub>1</sub> = (F/P - 0.25)W/30      A<sub>3</sub> = A<sub>1</sub> + (N<sub>s</sub> × I<sub>1</sub>)  
I<sub>2</sub> = [100/(X + 0.25)] XX/30      A<sub>2</sub> = XXX + (XXX × 0.XXX)  
I<sub>3</sub> = (0.0XX) 1.00      A<sub>3</sub> = XXX + (XXX)  
I<sub>4</sub> = XXX%      A<sub>3</sub> = XXX sq ft



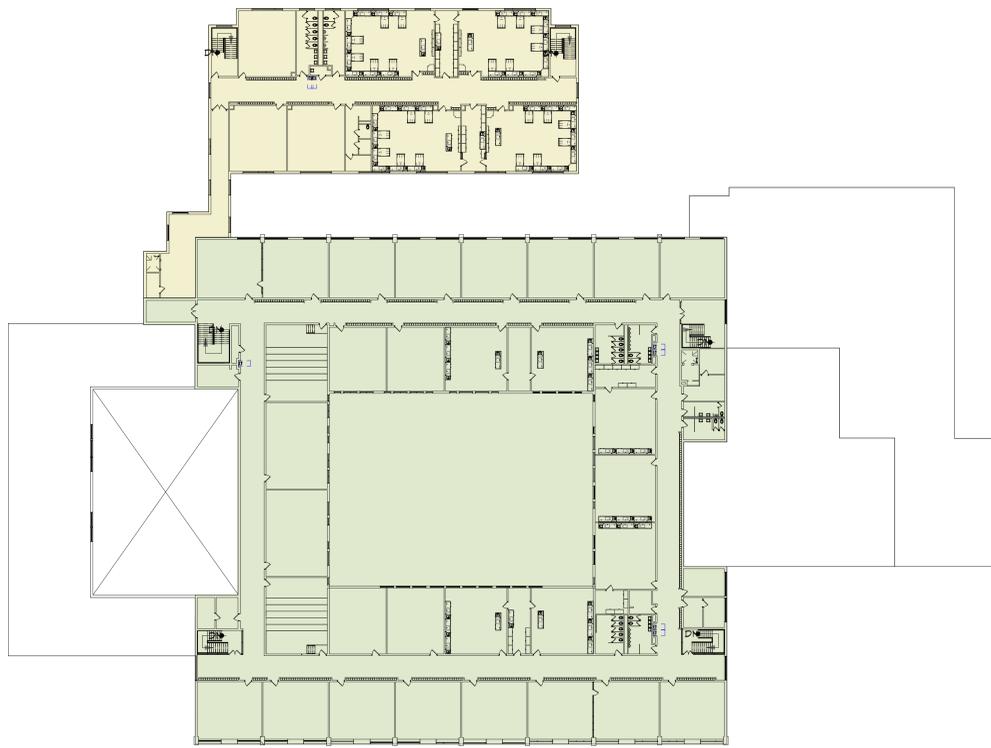
**3** LIFE SAFETY PLAN - SECOND FLOOR - SCIENCE WING  
LS101 3/32" = 1'-0"



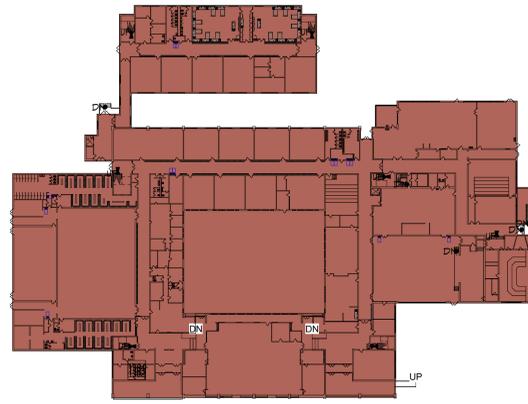
**2** LIFE SAFETY PLAN - FIRST FLOOR - SCIENCE WING  
LS101 3/32" = 1'-0"



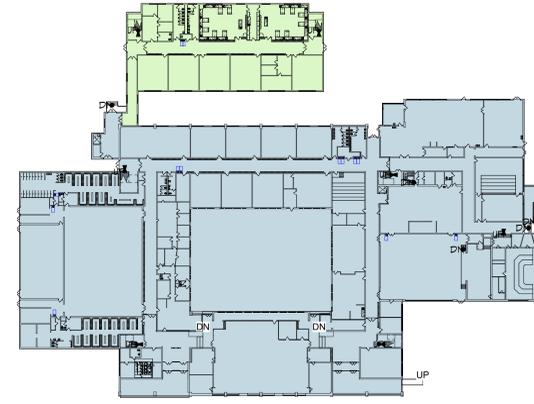
**1** LIFE SAFETY PLAN - FIRST FLOOR - VEST.  
LS101 1/8" = 1'-0"



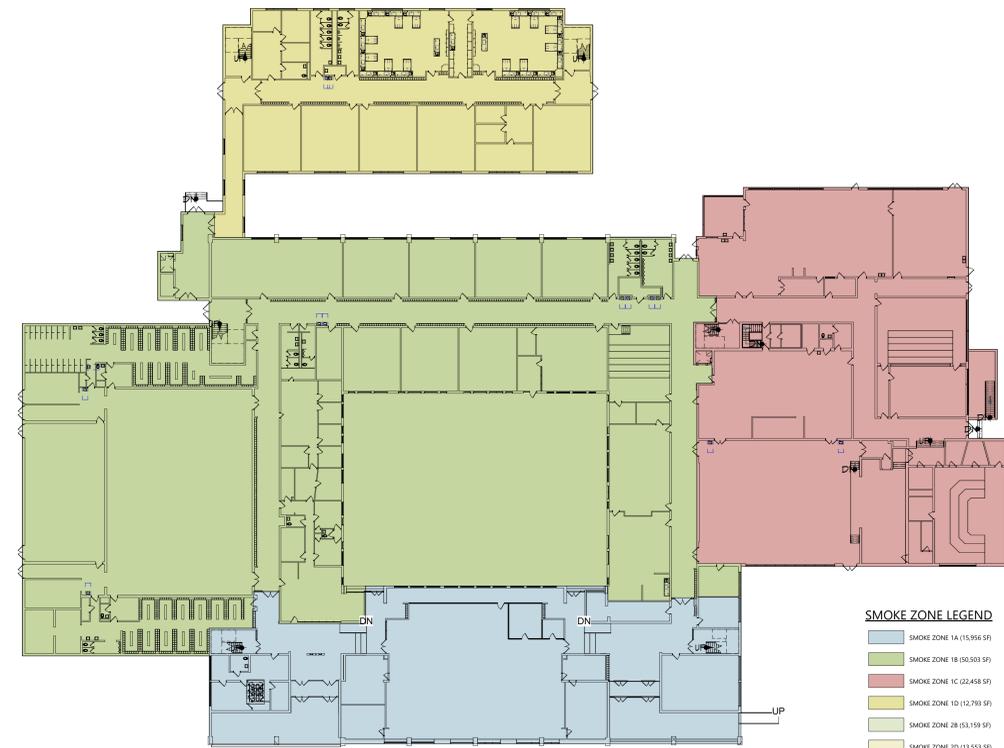
**2** SMOKE ZONE SECOND FLOOR  
LS102 1/32" = 1'-0"



**4** FIRE ZONE PLAN  
LS102 1" = 60'-0"



**3** VINTAGE PLAN  
LS102 1" = 60'-0"



- SMOKE ZONE LEGEND**
- SMOKE ZONE 1A (15,955 SF)
  - SMOKE ZONE 1B (50,503 SF)
  - SMOKE ZONE 1C (22,458 SF)
  - SMOKE ZONE 1D (12,793 SF)
  - SMOKE ZONE 2B (53,159 SF)
  - SMOKE ZONE 2D (13,553 SF)

**1** SMOKE ZONE FIRST FLOOR  
LS102 1/32" = 1'-0"

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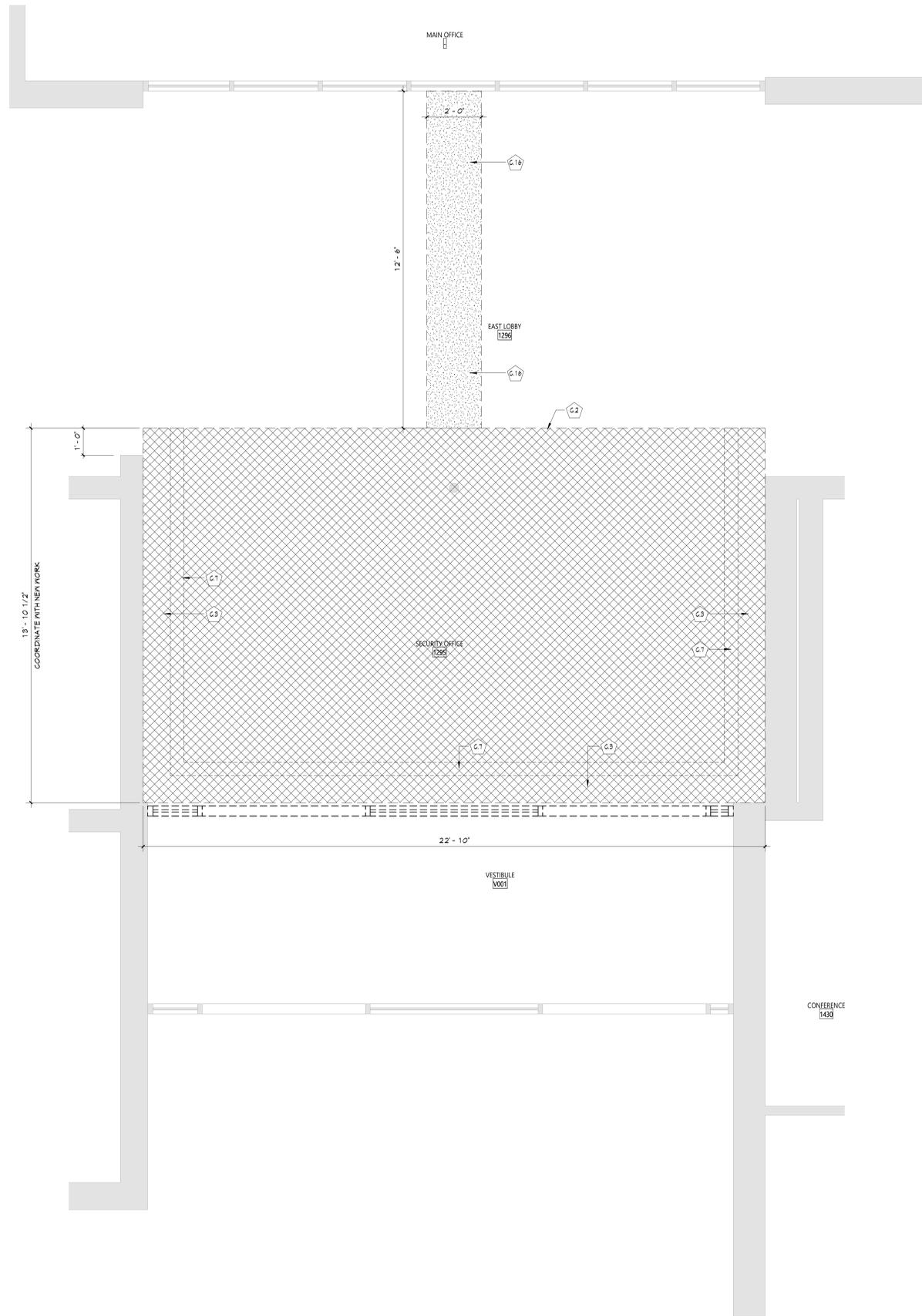
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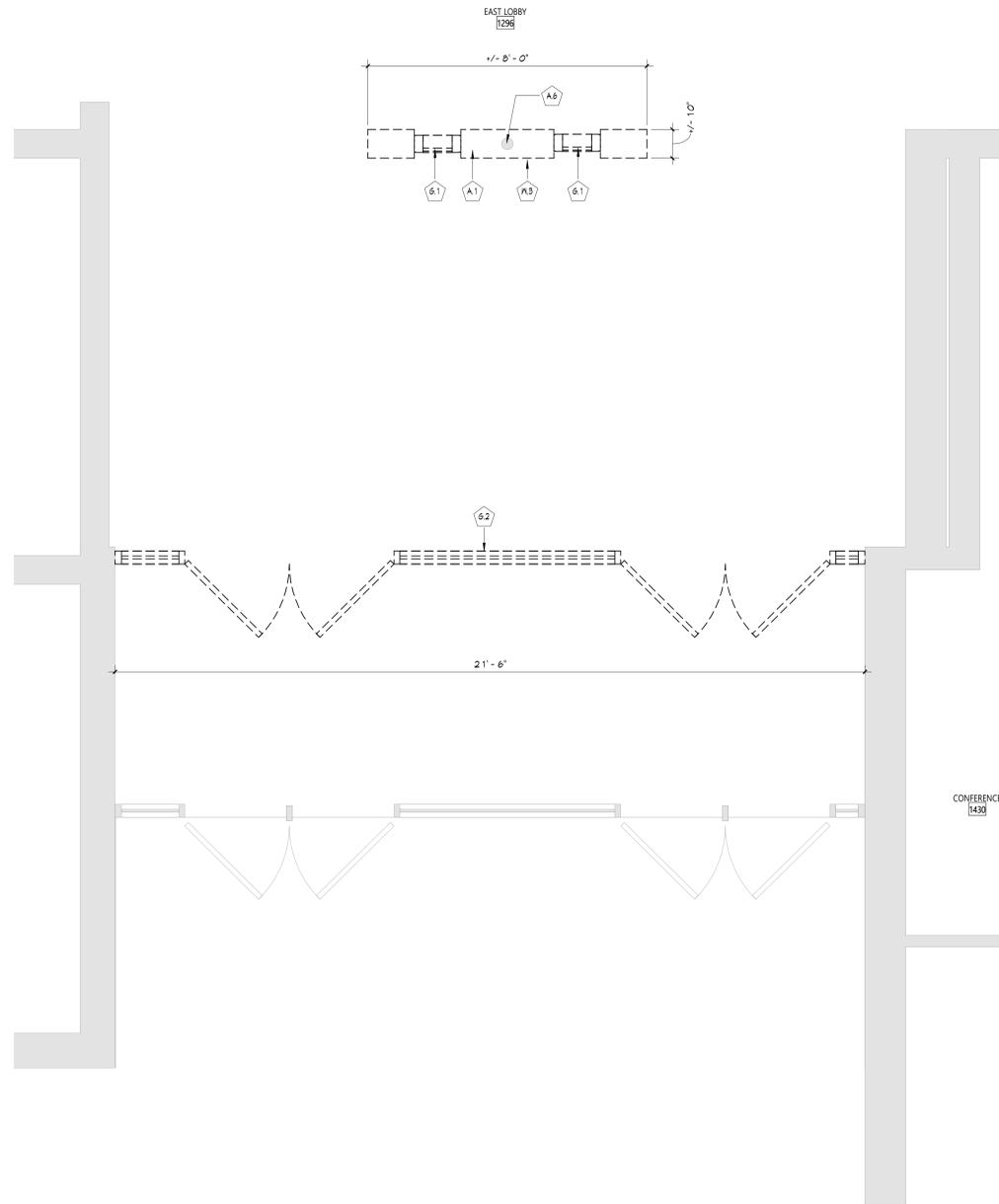
Sheet Title  
**SMOKE ZONE PLANS**

Sheet No.  
**VCMS  
LS102**

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**2** AREA A - PARTIAL FIRST FLOOR REMOVAL RCP  
AD111 1/2" = 1'-0"



**1** AREA A - PARTIAL FIRST FLOOR REMOVAL PLAN  
AD111 1/2" = 1'-0"

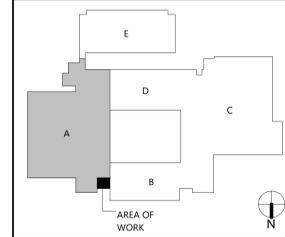
**GENERAL NOTES**

1. COORDINATE ALL REMOVALS WITH NEW CONSTRUCTION.
2. PATCH AND REPLACE EXISTING AND NEWLY CREATED HOLES IN WALLS (DUE TO REMOVAL) WITH MATERIALS TO MATCH EXISTING CONSTRUCTION.
3. SALVAGED ITEMS SHALL BE TURNED OVER TO OWNER UNO.
4. ALL KEYED REMOVALS SHALL INCLUDE REMOVAL OF ANY AND ALL ANCHORING SYSTEMS INCLUDING OBJECTS EMBEDDED INTO EXISTING WALLS.
5. REFER TO ASBESTOS AND MEP DRAWINGS FOR ADDITIONAL REMOVAL INFORMATION.
6. PROVIDE TEMPORARY SHORING AS NECESSARY AT ALL AREAS OF WALL REMOVAL AND NEW WALL PENETRATIONS.
7. DRILL CORNERS OF ALL NEW SANGUIT OPENING PRIOR TO SANGUITTING, TO PREVENT CUTTING INTO SCHEDULED CONSTRUCTION TO REMAIN.

**DEMOLITION KEYNOTES**

#	Description
A.1	REMOVE WALL MOUNTED EQUIPMENT, INCLUDING ALL WHITEBOARDS, TAGBOARDS, PROJECTION SCREENS, AND MAP ROLLS. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL REMOVALS.
A.6	EXISTING COLUMN TO REMAIN. PROTECT DURING CONSTRUCTION.
C.2	REMOVE EXISTING PLASTER CEILING SYSTEM IN ITS ENTIRETY, INCLUDING ALL FRAMING AND FASTENERS. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR EQUIPMENT REMOVALS.
C.3	REMOVE EXISTING SOFFIT SYSTEM IN ITS ENTIRETY.
C.7	REMOVE EXISTING WOOD TRIM AND RETAIN FOR REINSTALLATION.
C.16	REMOVE PORTION OF EXISTING GNB/PLASTER CEILING TO ACCOMMODATE MECHANICAL WORK.
G.1	REMOVE WINDOW UNIT SYSTEM IN ITS ENTIRETY, INCLUDING ALL METAL SILL FLASHING, FLASHINGS, AND FASTENERS.
G.2	REMOVE STOREFRONT SYSTEM IN ITS ENTIRETY, INCLUDING ALL SILLS, FLASHING, AND FASTENERS.
PL3	REMOVE STUD PARTITION IN ITS ENTIRETY.

**KEY PLAN**



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**CS ARCH**

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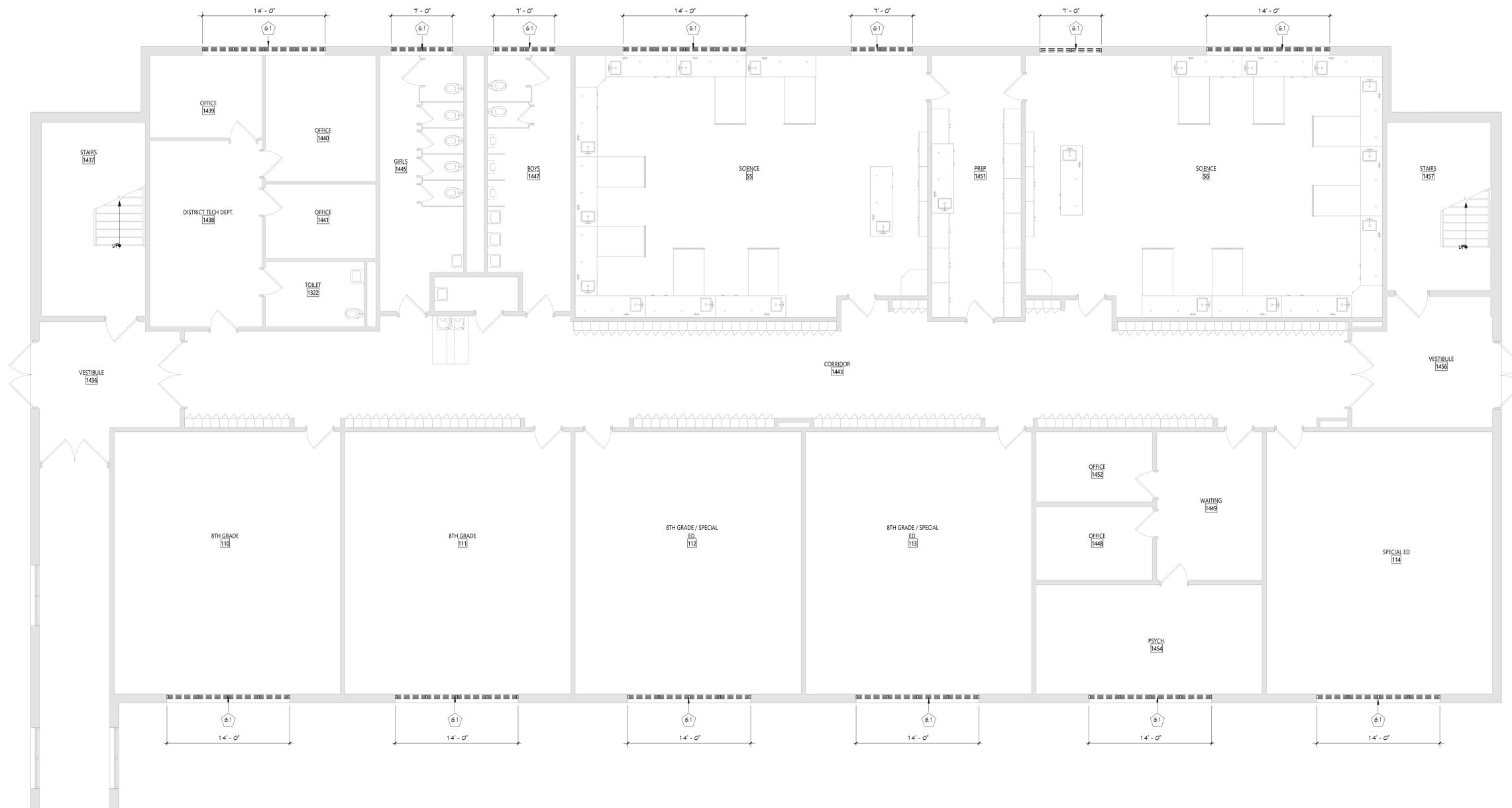
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Sheet Title  
**ENLARGED  
REMOVAL  
PLAN - FIRST  
FLOOR - AREA  
A**

Sheet No.  
**VCMAS  
AD111**

CONSTRUCTION DOCUMENTS

C:\Users\jmlle\Documents\187-2302.01 VCMS\_VCMS.dwg 3/1/24



**1** AREA E - PARTIAL FIRST FLOOR REMOVAL PLAN  
AD112 3/16" = 1'-0"

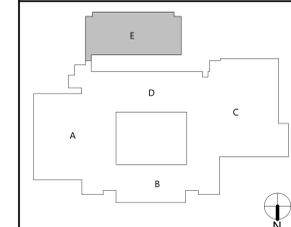
**GENERAL NOTES**

1. COORDINATE ALL REMOVALS WITH NEW CONSTRUCTION.
2. PATCH AND REPLACE EXISTING AND NEWLY CREATED HOLES IN WALLS (DUE TO REMOVAL) WITH MATERIALS TO MATCH EXISTING CONSTRUCTION.
3. SALVAGED ITEMS SHALL BE TURNED OVER TO OWNER UNO.
4. ALL KEYED REMOVALS SHALL INCLUDE REMOVAL OF ANY AND ALL ANCHORING SYSTEMS INCLUDING OBJECTS EMBEDDED INTO EXISTING WALLS.
5. REFER TO ASBESTOS AND MEP DRAWINGS FOR ADDITIONAL REMOVAL INFORMATION.
6. PROVIDE TEMPORARY SHORING AS NECESSARY AT ALL AREAS OF WALL REMOVAL AND NEW WALL PENETRATIONS.
7. DRILL CORNERS OF ALL NEW SANGUIT OPENING PRIOR TO SANGUITTING, TO PREVENT CUTTING INTO SCHEDULED CONSTRUCTION TO REMAIN.

**DEMOLITION KEYNOTES**

#	Description
6.1	REMOVE WINDOW UNIT SYSTEM IN ITS ENTIRETY, INCLUDING ALL METAL SILL FLASHINGS, FLASHINGS, AND FASTENERS.

**KEY PLAN**



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Consultant

**VALLEY CENTRAL SCHOOL DISTRICT  
VALLEY CENTRAL MIDDLE SCHOOL  
2023 CAPITAL PROJECT - PHASE 1**

Project Title



EXPIRATION DATE: 02/28/2025

DATE	DESCRIPTION

Drawn By:	AL
Checked By:	EAB
Proj. #:	44-13-01-06-016-023
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title  
**ENLARGED  
REMOVAL  
PLAN - FIRST  
FLOOR - AREA  
E**

Sheet No.  
**VCMS  
AD112**

CONSTRUCTION DOCUMENTS

GENERAL NOTES

- COORDINATE ALL REMOVALS WITH NEW CONSTRUCTION.
- PATCH AND REPLACE EXISTING AND NEWLY CREATED HOLES IN WALLS (DUE TO REMOVAL) WITH MATERIALS TO MATCH EXISTING CONSTRUCTION.
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- DRILL CORNERS OF ALL NEW SANGUIT OPENING PRIOR TO SANGUTTING, TO PREVENT CUTTING INTO SCHEDULED CONSTRUCTION TO REMAIN.

DEMOLITION KEYNOTES

#	Description
6.1	REMOVE WINDOW UNIT SYSTEM IN ITS ENTIRETY, INCLUDING ALL METAL SILL FLASHING, FLASHINGS, AND FASTENERS.



VALLEY CENTRAL SCHOOL DISTRICT  
VALLEY CENTRAL MIDDLE SCHOOL  
2023 CAPITAL PROJECT - PHASE 1

Project Title

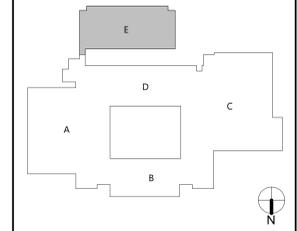


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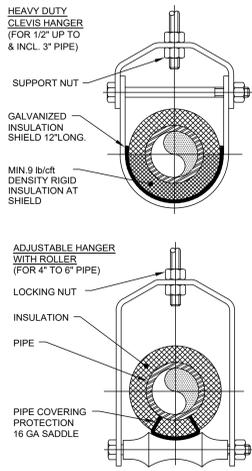
KEY PLAN



**1** AREA E - PARTIAL SECOND FLOOR REMOVAL PLAN  
AD113 3/16" = 1'-0"

Sheet Title  
ENLARGED  
REMOVAL  
PLAN -  
SECOND FLR -  
AREA E

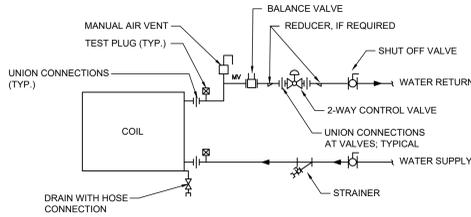
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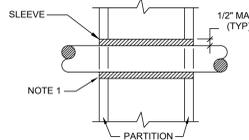
- NOTES:**
- PIPE 6" AND LARGER SHALL HAVE ROLLER SUPPORTED WITH DUAL RODS.
  - FOR CHW SERVICE OVER 3" REPLACE SADDLE WITH 12" LONG 14 GA SHIELD WITH RIGID INSULATION BETWEEN PIPE AND SHIELD.

PIPE Ø (IN.)	MAX. SPACING BETWEEN HANGERS (FT.)			MIN. ROD SIZE (IN.)
	STEEL PIPE	COPPER PIPE	CPVC	
1/2 THRU 1	7	5	5	3/8
1-1/2 THRU 2	9	8	6	3/8
2-1/2	11	9	7.5	1/2
3	12	10	7.5	1/2
4	14	12	8.5	5/8
6	17	14	9	3/4
8	19	16	10	7/8
10	22	18	10.5	7/8

**1** Pipe Hanger Support  
N.T.S.



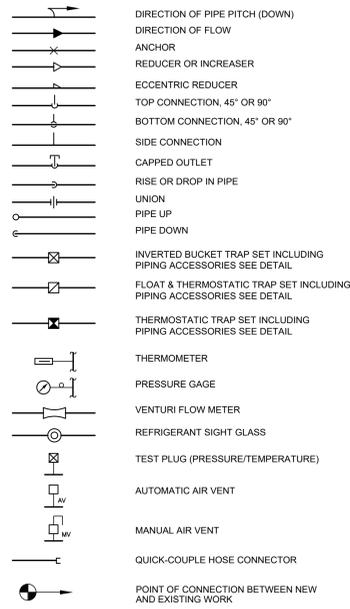
**2** Coil Piping Connection Detail  
Scale: None



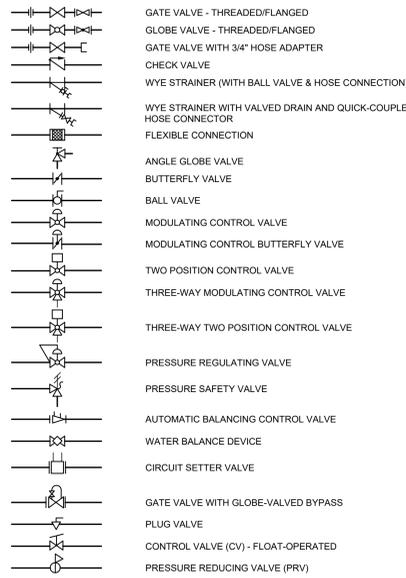
- NOTES:**
- AT FIRE RATED PARTITIONS, ADD ADDITIONAL LAYER OF FIRE SAFING INSULATION AROUND PENETRATION SO AS TO FILL CAVITY.
  - DUCT AND PIPE PENETRATIONS THRU CORRIDOR WALLS ABOVE THE CEILING ARE TO BE FIRE STOPPED AROUND THE PENETRATION.

**3** Pipe Penetrations Detail  
N.T.S.

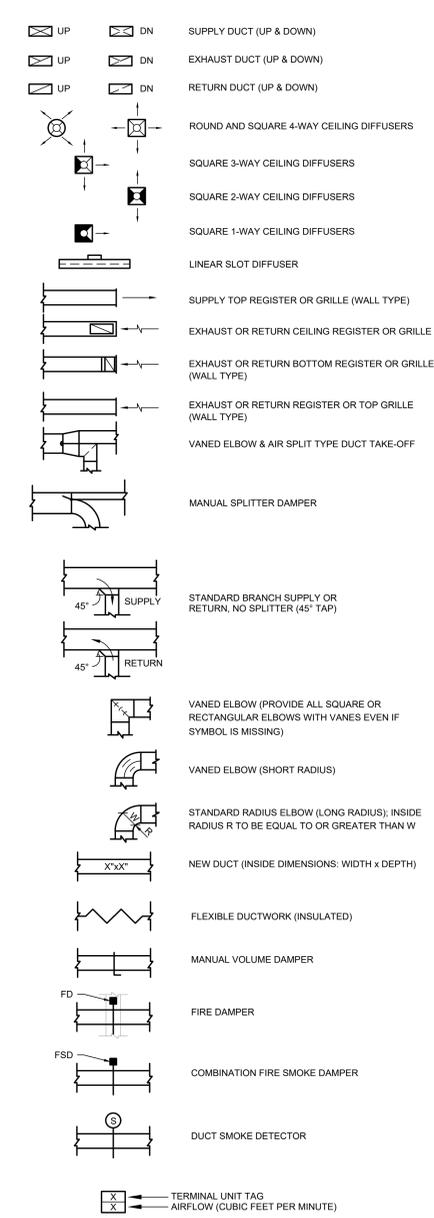
**General Symbols:**



**Valve Symbols:**



**Mechanical Legend :**



**Mechanical Notes:**

- ALL MATERIALS AND EQUIPMENT ARE TO BE NEW, UNUSED, AND FREE FROM DEFECTS OF ANY KIND. THE BASIS OF QUALITY SHALL BE THE LATEST REVISION OF ASTM, ANSI, OR OTHER ACCEPTABLE STANDARDS.
- THESE DRAWINGS ARE DIAGRAMMATIC, AND INDICATE GENERAL ARRANGEMENT OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO HAVE REVIEWED THE SITE FOR HIS WORK PRIOR TO HAVING SUBMITTED HIS PROPOSAL. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CONDITIONS FOUND DURING THE COURSE OF THE CONTRACT.
- THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF ALL OTHER TRADES.
- ALL WORK INCLUDING LABOR AND MATERIALS SHALL BE FULLY GUARANTEED FOR ONE (1) YEAR FROM THE DATE OF PAYMENT AND FINAL ACCEPTANCE BY THE OWNER AND ENGINEER.
- ALL CUTTING, PATCHING, FIRE-STOPPING, AND SURFACE RESTORATION IN CONNECTION WITH THIS TRADE SHALL BE COMPLETED BY THIS CONTRACTOR.
- A MINIMUM OF FOUR (4) COPIES OF SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO ORDERING AND INSTALLATION OF THE EQUIPMENT AND/OR MATERIALS. BY SUBMITTING SHOP DRAWINGS, THE CONTRACTOR REPRESENTS THAT ACTUAL FIELD CONDITIONS ARE VERIFIED BY HIM AND ARE REFLECTED ON HIS SUBMITTALS.
- THIS CONTRACTOR SHALL PAY ALL FEES, GIVE ALL NOTICES, FILE ALL NECESSARY DRAWINGS AND OBTAIN ALL PERMITS, INSPECTIONS AND CERTIFICATES OF APPROVAL REQUIRED IN CONNECTION WITH WORK UNDER THIS CONTRACT.
- ALL WORK IN ASSOCIATION WITH THIS CONTRACT SHALL BE COMPLETED IN STRICT COMPLIANCE WITH THE 2020 BUILDING CODE OF NEW YORK STATE, 2020 MECHANICAL CODE OF NEW YORK STATE & 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.
- ALL PIPING SHALL BE PROPERLY SUPPORTED AND ROUTED PARALLEL OR PERPENDICULAR TO BUILDING WALLS. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL SUPPORT HANGERS AND MISCELLANEOUS METALS REQUIRED FOR PROPER INSTALLATION OF WORK.
- ALL PIPING SHALL BE PITCHED SUCH THAT AIR IN THE SYSTEM CAN BE VENTED THROUGH MANUAL AIR VENTS.
- TEST PIPING AND PROVE TIGHT FOR AT LEAST TWO HOURS TO TWICE THE SYSTEM WORKING PRESSURE. TEST SHALL BE PERFORMED IN THE PRESENCE OF THE ENGINEER AND LOCAL INSPECTOR. TEST SHALL BE REPEATED IF NECESSARY UNTIL FINAL APPROVAL OF SYSTEM IS OBTAINED.
- SUPPORT HORIZONTAL PIPING UTILIZING A SPACING PER PIPING MANUFACTURER'S REQUIREMENTS.
- INSTALL VALVES ON THE ENTIRE DISTRIBUTION SYSTEM, SO LOCATED AS TO GIVE COMPLETE CONTROL TO ALL FIXTURES AND EQUIPMENT.
- INSTALL DRAIN VALVES AT BASE OF ALL RISERS AND AT LOW POINTS OF PIPING SYSTEM. INSTALL MANUAL AIR VENT VALVE FACILITIES AT THE TOP OF ALL RISERS AND AT HIGH POINTS OF THE PIPING SYSTEM.
- INSTALL ALL HYDRONIC PIPING AS HIGH AS POSSIBLE PROVIDING RISERS, DROPS AND OFFSETS TO CLEAR STRUCTURAL MEMBERS, LIGHT FIXTURES, OTHER PIPING, AND OTHER OBSTRUCTIONS. WHERE CONFLICTS ARISE, IT SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO PROCEEDING.
- THE ENTIRE HYDRONIC SYSTEM IS TO BE BALANCED TO WITHIN 10% OF THE SPECIFIED WATER FLOWRATE REQUIREMENTS. A CERTIFIED BALANCING REPORT AND VERIFICATION IS TO BE SUBMITTED TO THE ENGINEER PRIOR TO FINAL ACCEPTANCE.
- ALL DUCTWORK IS TO BE CONSTRUCTED OF GALVANIZED SHEET STEEL (EXCEPT WHERE OTHERWISE SPECIFIED WITH GAUGES, BRACING AND CONSTRUCTION IN ACCORDANCE WITH THE LATEST SMACNA DUCT MANUAL STANDARDS AND ALL OTHER AUTHORITIES HAVING JURISDICTION).
- PROVIDE MANUAL DAMPERS AT EACH SPLIT OR TAP CONNECTION TO TRUNK DUCTS FOR BALANCING PURPOSES WHETHER OR NOT SPECIFICALLY SHOWN ON DRAWINGS. EACH DAMPER SHALL BE OF THE OPPOSED BLADE DAMPER TYPE INSTALLED WITH AN OPERATOR AND LOCKING DEVICE. ALL DAMPERS LOCATED ABOVE HARD OR INACCESSIBLE CEILINGS SHALL BE INSTALLED WITH REMOTE GEAR OPERATORS.
- FURNISH & INSTALL FUSIBLE LINK FIRE DAMPERS AT ALL LOCATIONS WHERE DUCT PENETRATES FIRE-RATED FLOOR OR CEILING ASSEMBLY WHETHER OR NOT SPECIFICALLY SHOWN. INSTALL DUCTWORK CASING ACCESS DOORS AND FRAMES AHEAD OF EACH FIRE DAMPER FOR INSPECTION AND MAINTENANCE. DOORS SHALL BE A MINIMUM OF 20 GA. DOUBLE PANEL INSULATED TYPE.
- INSTALL TURNING VANES ON ALL RECTANGULAR TURNS. TURNING VANES SHALL BE DOUBLE THICKNESS TYPE CONSTRUCTED IN ACCORDANCE WITH SMACNA MANUAL.
- ROUND SHEET STEEL ELBOWS ARE TO BE INSTALLED AT THE DUCT CONNECTION TO ALL SUPPLY AIR DIFFUSERS. SHEET STEEL PLENUM BOXES ARE TO BE INSTALLED AT THE DUCT CONNECTION TO ALL RETURN AND EXHAUST AIR GRILLES. THE CONTRACTOR IS TO PAINT THE INSIDE OF THE SHEET STEEL PLENUM BOXES FLAT BLACK.
- INSTALL ALL DUCTWORK AS HIGH AS POSSIBLE PROVIDING RISERS, DROPS AND OFFSETS TO CLEAR STRUCTURAL MEMBERS, LIGHT FIXTURES, OTHER PIPING, AND OTHER OBSTRUCTIONS. WHERE CONFLICTS ARISE, IT SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO PROCEEDING.
- THE ENTIRE AIR DISTRIBUTION SYSTEM IS TO BE BALANCED TO WITHIN 10% OF THE SPECIFIED AIRFLOW REQUIREMENTS.
- THE CONTRACTOR IS RESPONSIBLE TO TEST ALL EQUIPMENT, PIPING, FIXTURES, AND SYSTEMS INSTALLED UNDER THIS CONTRACT TO ENSURE PROPER OPERATION PRIOR TO FINAL ACCEPTANCE BY THE OWNER AND ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE TO DETERMINE WHETHER SPECIAL LICENSING IS REQUIRED IN ORDER TO PERFORM THE REQUIRED WORK IN THE MUNICIPALITY WHERE THE PROJECT IS LOCATED. IF THE CONTRACTOR CANNOT OBTAIN THE REQUIRED LICENSING TO COMPLETE THE WORK WITHIN THE PROJECT SCHEDULE, THEN THE CONTRACTOR SHALL NOT BE PERMITTED TO BID ON THIS PROJECT.
- CONTRACTOR IS RESPONSIBLE TO CREATE AND SUBMIT RED-LINE "AS-BUILT" PLANS TO THE ENGINEER AT THE END OF THE PROJECT. AS-BUILT PLANS SHALL ACCURATELY REPRESENT THE SYSTEMS AS THEY WERE INSTALLED.

**Mechanical Equipment:**

- THERMOSTAT PROVIDED BY OWNER, INSTALLED BY CONTRACTOR, MOUNT 5'-0" A.F.F. IN LOCATIONS SHOWN ON PLANS

SPLIT SYSTEM HEAT PUMPS & CABINET UNIT HEATERS FURNISHED BY OWNER, INSTALLED BY CONTRACTOR. CONTRACTOR IS RESPONSIBLE TO RECEIVE THE EQUIPMENT DELIVERY AT THE PROJECT SITE, MOVE EQUIPMENT FROM TRUCK(S) TO A DESIGNATED STORAGE LOCATION ON THE SITE & RIG THE UNIT INTO THE FINAL INSTALLATION LOCATION. CONTRACTOR IS TO PROVIDE ALL ASSOCIATED COMPONENTS, I.E., DUCTWORK, PIPING, CONTROLS, ACCESSORIES, ETC. UNLESS OTHERWISE NOTED IN THE PROJECT DOCUMENTS; REFER TO FRONT END DOCUMENTS FOR ADDITIONAL INFORMATION.

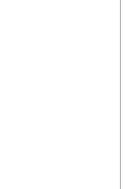
CABINET UNIT HEATER SCHEDULE																
EQUIPMENT TAG	MANUFACTURER (OR ACCEPT. EQUAL)	MODEL	FLUID TYPE	EWT (°F)	LWT (°F)	FLOW RATE (GPM)	PRESSURE DROP (FT HD)	HEATING CAPACITY (MBH)	AIRFLOW (CFM)	ELECTRICAL POWER REQUIREMENTS					WEIGHT (LB)	NOTES
										VOLT	PHASE	Hz.	MCA	MOCP		
CUH-1	TRANE	FFEB030	HOT WATER	180	160	3.5	0.96	35.3	300	120	1	60	0.45	15	121	HORIZONTAL RECESSED UNIT; BOTTOM STAMPED LOUVER SUPPLY & RETURN; UNITS FURNISHED W/ DISCONNECT SWITCH, 1" FILTER, SYMBIO 400-B CONTROLLER, DELUXE PIPING PACKAGE, 2-WAY MODULATING CONTROL VALVE
CUH-2	TRANE	FFEB030	HOT WATER	180	160	3.5	0.96	35.3	300	120	1	60	0.45	15	121	HORIZONTAL RECESSED UNIT; BOTTOM STAMPED LOUVER SUPPLY & RETURN; UNITS FURNISHED W/ DISCONNECT SWITCH, 1" FILTER, SYMBIO 400-B CONTROLLER, DELUXE PIPING PACKAGE, 2-WAY MODULATING CONTROL VALVE

INDOOR MINI-SPLIT UNIT SCHEDULE																			
EQUIPMENT TAG	MANUFACTURER (OR ACCEPT. EQUAL)	MODEL	MINI-SPLIT UNIT TYPE	AREA OF BUILDING SERVED	AIRFLOW (CFM)	COOLING			HEATING			PAIRED OUTDOOR UNIT	EXTERNAL STATIC PRESSURE (IN. W.C.)	ELECTRICAL POWER REQUIREMENTS				WEIGHT (LB)	NOTES
						CAPACITY (MBH)	EDB (°F)	EWB (°F)	CAPACITY (MBH)	EDB (°F)	EWB (°F)			VOLT	PHASE	Hz.	MCA		
FCU-1	TRANE	NTXCKS09A112AA	CEILING CASSETTE	SECURITY OFFICE	300	9.0	80.0	67.0	11.0	70.0	60.0	HP-1	-	208	1	60	0.25	31	PROVIDE W/ BUILT IN CONDENSATE PUMP

AIR-COOLED HEAT PUMP SCHEDULE																				
EQUIPMENT TAG	MANUFACTURER (OR ACCEPT. EQUAL)	MODEL	INDOOR UNITS SERVED	COMPRESSOR TYPE	NOM. COOL CAPACITY (MBH)	NOM. HEAT CAPACITY (MBH)	OUTDOOR OPERATING TEMP. RANGE (°F)		AHRU EFFICIENCY RATINGS		REFRIGERANT	SOUND PRESSURE LEVEL COOLING/HEATING (dB)	ELECTRICAL POWER REQUIREMENTS				WEIGHT (LB)	NOTES		
							COOLING	HEATING	EER	SEER			COP	VOLT	PHASE	Hz.			MCA	MOCP
HP-1	TRANE	NTXSKH09A112AA	FCU-1	INVERTER SCROLL HERMETIC	9.0	11.0	14 TO 115	-13 TO 75	15.0	20.2	3.9	R410A	50	208	1	60	14	24	129	INSTALL PER MANUFACTURER REQUIREMENTS, FURNISH W/ REQUIRED PIPING ACCESSORIES



DATE	DESCRIPTION

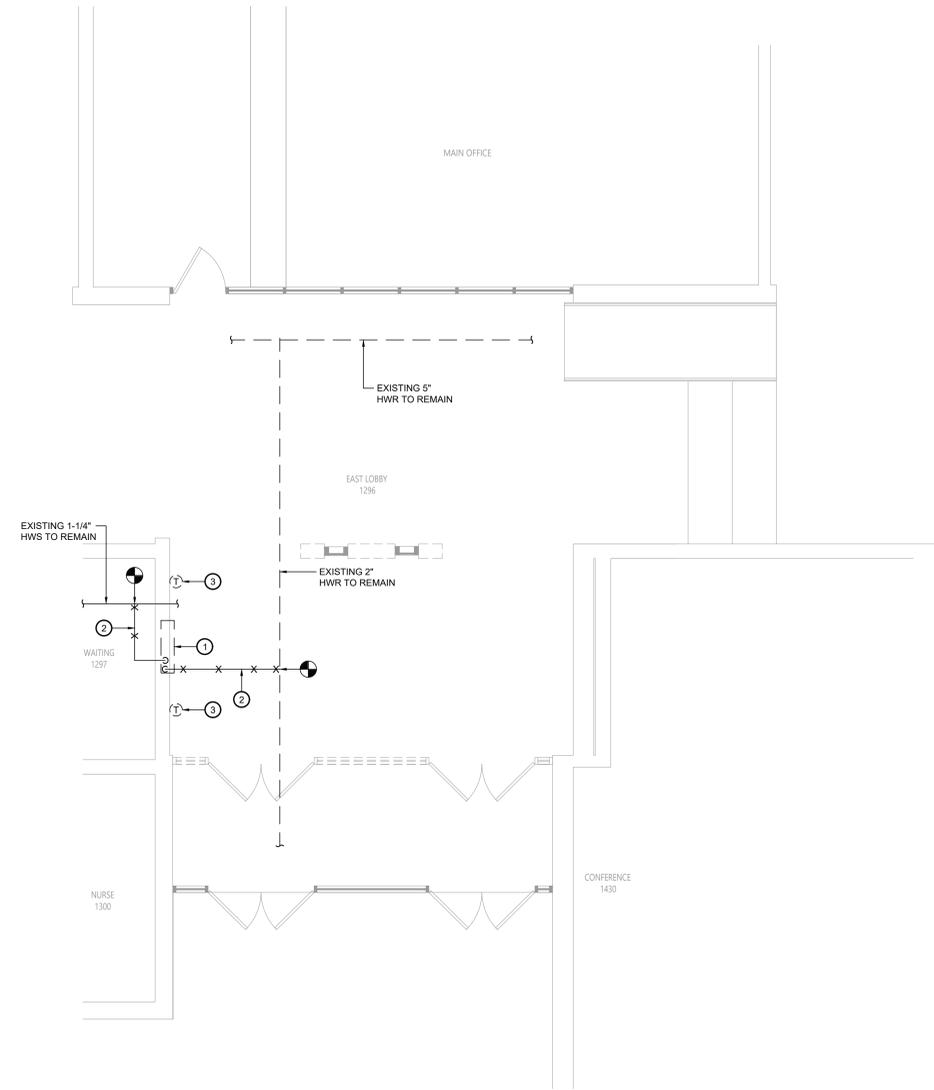
Drawn By: BJK  
Checked By: 44-13-01-06-016-023  
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Sheet Title  
**MECHANICAL NOTES, LEGENDS, SCHEDULES & DETAILS**

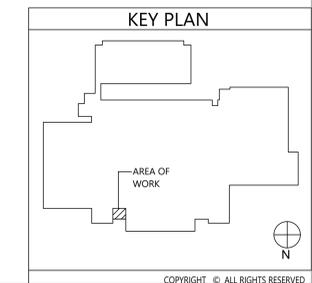
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**VCMS M001**

**Key Notes:**

- ① EXISTING CABINET UNIT HEATER TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ANY PIPING, CONTROLS, HANGERS, SUPPORTS, ACCESSORIES, ETC.
- ② EXISTING HOT WATER PIPING TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ANY ASSOCIATED VALVES, STRAINERS, HANGERS, SUPPORTS, INSULATION, ACCESSORIES, ETC. REMOVE TO POINT OF DISCONNECTION & TEMPORARILY CAP
- ③ EXISTING THERMOSTAT TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ANY ASSOCIATED WIRING, TUBING, CONDUIT, ACCESSORIES, ETC.



**1** Mechanical Demolition Plan  
 MD111 Scale: 1/4" = 1'-0"



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 845-561-3179 www.csarchpc.com



**VALLEY CENTRAL SCHOOL DISTRICT  
 VALLEY CENTRAL MIDDLE SCHOOL  
 2023 CAPITAL PROJECT - PHASE 1**

Project Title



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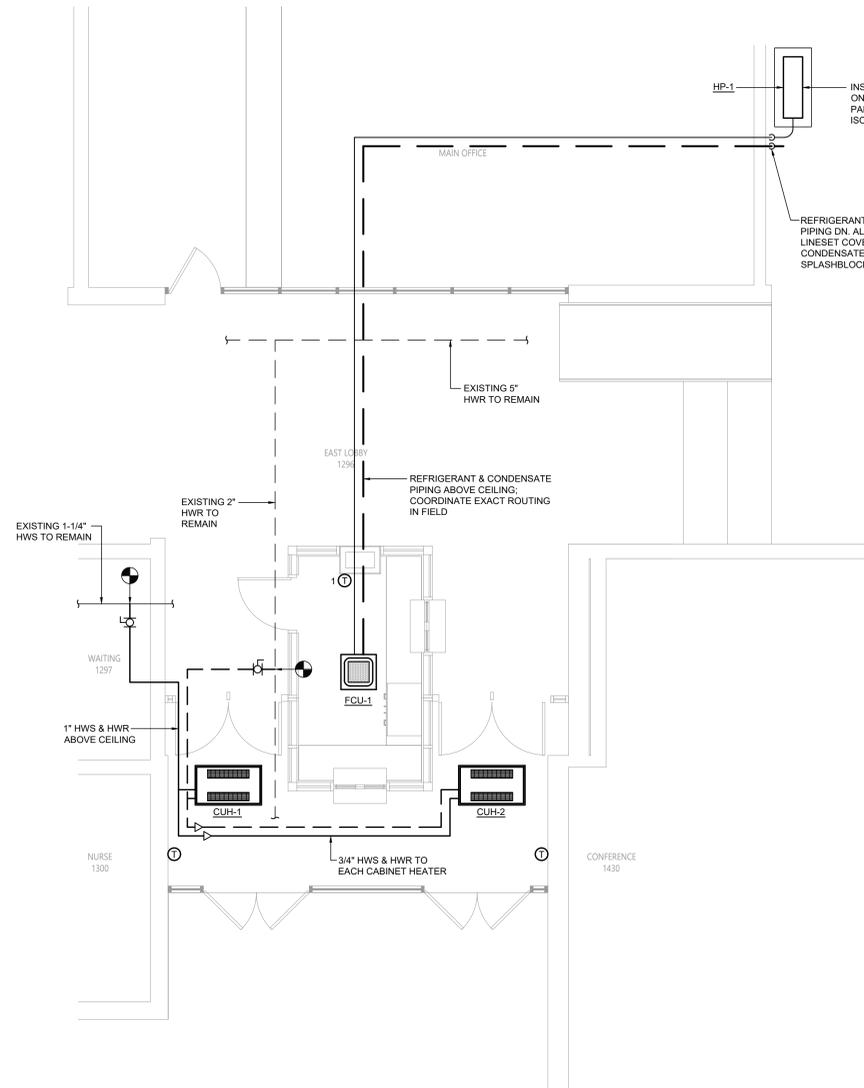
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Sheet Title  
**MECHANICAL  
 DEMOLITION  
 PLAN**

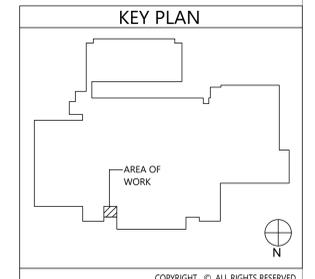
Sheet No.  
**VCMS  
 MD111**

CONSTRUCTION DOCUMENTS





1 Mechanical Plan  
 Scale: 1/4" = 1'-0"



VALLEY CENTRAL SCHOOL DISTRICT  
 VALLEY CENTRAL MIDDLE SCHOOL  
 2023 CAPITAL PROJECT - PHASE 1

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Consultant  
 BLAKE ENGINEERING LLC  
 www.blakeengineering.com

Project Title



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 MECHANICAL PLAN

Sheet No.  
 VCMS  
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**VALLEY CENTRAL SCHOOL DISTRICT  
VALLEY CENTRAL MIDDLE SCHOOL  
2023 CAPITAL PROJECT - PHASE 1**



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**ELECTRICAL  
NOTES,  
LEGENDS &  
SCHEDULES**

Sheet No.  
**VCMS  
E001**  
CONSTRUCTION DOCUMENTS

**ELECTRICAL NOTES:**

- ALL MATERIALS AND EQUIPMENT ARE TO BE NEW, UNUSED, AND FREE FROM DEFECTS OF ANY KIND. THE BASIS OF QUALITY SHALL BE THE LATEST REVISION OF ASTM, ANSI, OR OTHER ACCEPTABLE STANDARDS.
- THESE DRAWINGS ARE DIAGRAMMATIC, AND INDICATE GENERAL ARRANGEMENT OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO HAVE REVIEWED THE SITE FOR HIS WORK PRIOR TO HAVING SUBMITTED HIS PROPOSAL. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CONDITIONS FOUND DURING THE COURSE OF THE CONTRACT.
- THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF ALL OTHER TRADES.
- ALL WORK INCLUDING LABOR AND MATERIALS SHALL BE FULLY GUARANTEED FOR ONE (1) YEAR FROM THE DATE OF PAYMENT AND FINAL ACCEPTANCE BY THE OWNER AND ENGINEER.
- ALL CUTTING, PATCHING, FIRE-STOPPING, AND SURFACE RESTORATION IN CONNECTION WITH THIS TRADE SHALL BE COMPLETED BY THIS CONTRACTOR.
- A MINIMUM OF FOUR (4) COPIES OF SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO ORDERING AND INSTALLATION OF THE EQUIPMENT AND/OR MATERIALS. BY SUBMITTING SHOP DRAWINGS, THE CONTRACTOR REPRESENTS THAT ACTUAL FIELD CONDITIONS ARE VERIFIED BY HIM AND ARE REFLECTED ON HIS SUBMITTALS.
- THIS CONTRACTOR SHALL PAY ALL FEES, GIVE ALL NOTICES, FILE ALL NECESSARY DRAWINGS, AND OBTAIN ALL PERMITS, INSPECTIONS AND CERTIFICATES OF APPROVAL REQUIRED IN CONNECTION WITH WORK UNDER THIS CONTRACT.
- EQUIPMENT AND MATERIALS FOR WHICH UNDERWRITERS LABORATORIES, INC. (UL) PROVIDES PRODUCT LISTING SERVICE SHALL BE LISTED AND BEAR THE LISTING MARK.
- ALL WORK IN ASSOCIATION WITH THIS CONTRACT SHALL BE COMPLETED IN STRICT COMPLIANCE WITH THE 2017 NATIONAL ELECTRIC CODE, 2020 BUILDING CODE OF NEW YORK STATE, 2020 FIRE CODE OF NEW YORK STATE & 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.
- ALL NEW LIGHTING FIXTURES SHALL BE INSTALLED FULLY LAMPED AND OPERABLE. THE CONTRACTOR SHALL TURN OVER TO THE OWNER SPARE LAMPS OF EVERY TYPE ON THE PROJECT IN AN AMOUNT NOT LESS THAN 20% OF THE TOTAL NUMBER OF EACH TYPE (MINIMUM 1 PER TYPE).
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION, APPLICATIONS AND FEES OF ALL WORK ASSOCIATED WITH THE LOCAL UTILITY COMPANY AND/OR THE TELEPHONE COMPANY. ALL WORK INVOLVING THE UTILITY COMPANY SHALL BE COMPLETED IN ACCORDANCE WITH THEIR REGULATIONS AND GUIDELINES.
- ALL CONDUCTORS SHALL BE COPPER, SHALL NOT BE LESS THAN #12 AWG, AND SHALL NOT EXCEED 70 FEET FROM PANEL BOARD TO FURTHEST CONNECTION UNLESS OTHERWISE NOTED ON PLANS.
- LIGHTING LOADS SHALL NOT BE COMBINED ON THE SAME CIRCUIT AS ANY OTHER ELECTRICAL LOADS.
- CONTRACTOR SHALL BE RESPONSIBLE TO FURNISH & INSTALL ALL SMALL DETAILS AND INCIDENTAL WORK NOT SHOWN OR SPECIFIED, BUT WHICH CAN BE REASONABLY INFERRED AS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM OF HIGH QUALITY MEETING ALL APPLICABLE CODES AND REGULATIONS.
- FOR EACH NEW OR MODIFIED ELECTRICAL PANEL, THE CONTRACTOR SHALL PROVIDE A TYPE WRITTEN DIRECTORY CARD TO REFLECT ALL CIRCUITING. ADDITIONALLY, THE CONTRACTOR SHALL LABEL (WITH A PERMANENT MARKER OR LABEL) EACH RECEPTACLE ON THE INSIDE OF EACH FACE PLATE WITH PANEL AND CIRCUIT NUMBER DESIGNATION.
- MINIMUM REQUIREMENT FOR EQUIPMENT GROUNDING SHALL BE GOVERNED BY THE NEC. ALL GROUNDS, BONDING, ETC. SHALL MEET THESE REQUIREMENTS. THE CONTRACTOR SHALL FURNISH AND INSTALL ANY AND ALL ITEMS NECESSARY TO MEET THESE REQUIREMENTS AT NO EXTRA COST, EVEN IF SUCH ITEMS ARE NOT DETAILLED ON THE DRAWINGS.
- ALL CONDUIT AND CABLE SHALL BE PROPERLY SUPPORTED AND ROUTED PARALLEL OR PERPENDICULAR TO BUILDING WALLS. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL SUPPORT HANGERS AND MISCELLANEOUS METALS REQUIRED FOR PROPER INSTALLATION OF WORK.
- THE CONTRACTOR IS RESPONSIBLE TO TEST ALL EQUIPMENT, WIRING, DEVICES, AND SYSTEMS INSTALLED UNDER THIS CONTRACT TO ENSURE PROPER OPERATION PRIOR TO FINAL ACCEPTANCE BY THE OWNER AND ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE TO DETERMINE WHETHER SPECIAL LICENSING IS REQUIRED IN ORDER TO PERFORM THE REQUIRED WORK IN THE MUNICIPALITY WHERE THE PROJECT IS LOCATED. IF THE CONTRACTOR CANNOT OBTAIN THE REQUIRED LICENSING TO COMPLETE THE WORK WITHIN THE PROJECT SCHEDULE, THEN THE CONTRACTOR SHALL NOT BE PERMITTED TO BID ON THIS PROJECT.

**ELECTRICAL LEGEND:**

- MOTOR
- EARTH GROUND
- JUNCTION BOX
- EMERGENCY POWER OFF BUTTON
- FUSE WITH RATING
- MOLDED CASE CIRCUIT BREAKER
- DISCONNECT SWITCH, FUSED
- DISCONNECT SWITCH, UNFUSED
- STARTER, COMBINATION WITH DISCONNECT SWITCH
- STARTER OR MOTOR CONTROLLER
- METER
- 20A 120V DUPLEX CEILING MOUNTED RECEPTACLE
- 20A 120V DUPLEX WALL MOUNTED RECEPTACLE; 18" A.F.F. UNLESS OTHERWISE NOTED
- 20A 120V DUPLEX WALL MOUNTED RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER
- 20A 120V QUADRAPLEX RECEPTACLE
- WALL MOUNTED SPECIAL PURPOSE RECEPTACLE
- 20A 120V WALL MOUNTED USB CHARGER RECEPTACLE TYPICAL OF HUBBELL USB20X OR ACCEPTABLE EQUAL
- FLOOR MOUNTED BOX W/ DUPLEX RECEPTACLE; FLUSH MOUNTED
- FLOOR MOUNTED BOX W/ DUPLEX RECEPTACLE & 2 PORT ETHERNET OUTLET; FLUSH MOUNTED
- FLOOR MOUNTED BOX W/ QUAD RECEPTACLE & 2 PORT ETHERNET OUTLET; FLUSH MOUNTED
- WALL PHONE OUTLET MTD 48" A.F.F.; 3/4" EMT CDT. IN WALL TO ABOVE CEILING; PROVIDE 1 PORT ETHERNET WALL PLATE; PROVIDE (1) CAT 6E CABLES FROM WALL PLATE TO NEAREST IT CLOSET
- WALL BOX FOR TELEVISION CONNECTION; 1-1/4" EMT CDT. IN WALL TO ABOVE CEILING W/ PULL CORD
- TELEPHONE/DATA COMMUNICATION BOX W/ (2) 3/4" EMT CDT. IN WALL TO ABOVE CEILING; PROVIDE 2 PORT ETHERNET WALL PLATE; PROVIDE (2) CAT 6E CABLES FROM WALL PLATE TO NEAREST IT CLOSET
- BRANCH CIRCUIT HOMERUN; LINES INDICATE NUMBER OF CIRCUITS, NEUTRAL AND SWITCH LEG CONDUCTORS. ONE SEPARATE GROUNDING CONDUCTOR SHALL BE PROVIDED FOR EACH HOMERUN; NOT SHOWN
- SWITCH  
BLANK = SINGLE POLE                      2 = DOUBLE POLE  
3 = THREE-WAY                              4 = FOUR-WAY  
D = DIMMER                                      K = KEY OPERATED  
P = WITH PILOT LIGHT                      PB = PUSH BUTTON  
T = TIMER OPERATED                      WP = WEATHER PROOF  
X = EXPLOSION PROOF                      OC = OCCUPANCY SENSOR
- DUAL TECHNOLOGY OCCUPANCY SENSOR
- DAYLIGHT SENSOR
- MULTIMEDIA BOX. PROVIDE DEVICE BOX AT 60" ABOVE FINISHED FLOOR WITH DUPLEX RECEPTACLE & (2) CAT6E PORTS. PROVIDE FACEPLATES AND (2) 1-1/4" CONDUITS STUBBED ABOVE CEILING. (1) W/ CAT6E CABLES RUN TO NEAREST IT CLOSET & (1) W/ PULL CORD FOR FUTURE HDMI. RECESS MOUNT BOX TYPICAL OF WIREMOLD EVOLUTION SERIES WITH CONCEALED CONDUITS IN EXISTING FRAMED WALLS AND ALL NEW WALLS. PROVIDE SURFACE MOUNT BOXES WITH DUAL CHANNEL SURFACE MOUNT RACEWAY (LEGRAND WIREMOLD S400 SERIES) WHERE INSTALLED ON EXISTING MASONRY WALLS.

**FIRE ALARM LEGEND:**

- HORN/STROBE DEVICE, ONE ASSEMBLY; MTD, 80" A.F.F. UNLESS OTHERWISE NOTED; 15 CANDELA UNLESS OTHERWISE NOTED
- STROBE DEVICE, MTD, 80" A.F.F. UNLESS OTHERWISE NOTED; 15 CANDELA UNLESS OTHERWISE NOTED
- MANUAL PULL STATION; MTD, 48" A.F.F.
- WATER FLOW SWITCH
- VALVE TAMPER SWITCH
- DETECTOR; LETTER INDICATES AS FOLLOWS:  
BLANK = SMOKE DETECTOR  
P = PHOTOELECTRIC SMOKE  
M = MULTIPLE STATION SMOKE ALARM  
D = PHOTOELECTRIC DUCT SMOKE DETECTOR  
FSD = DUCT SMOKE DETECTOR FOR FIRE SMOKE DAMPER
- RATE OF RISE HEAT DETECTOR, 135°F
- CARBON MONOXIDE DETECTOR; MTD, 60" A.F.F.
- ADDRESSABLE FIRE ALARM CONTROL PANEL
- FIRE ALARM ANNUNCIATOR PANEL
- REMOTE TEST SWITCH & LED FOR DUCT SMOKE DETECTORS
- FIRE ALARM RELAY

**SECURITY LEGEND:**

- PANIC BUTTON - 18/4 SHIELDED
- INTERCOM
- DOOR RELEASE BUTTON - 16/2 SHIELDED
- WORKSTATION FOR CARD ACCESS & VIDEO SYSTEM
- CARD READER - 22/6 SHIELDED
- REQUEST TO EXIT - 18/4 SHIELDED
- MAGNETIC DOOR CONTACT - 16/2 SHIELDED
- ELECTRIC LOCK - 16/2 SHIELDED

**LIGHTING FIXTURE SCHEDULE**

TAG	SYMBOL	MANUFACTURER & MODEL	TYPE	VOLTAGE	# OF LAMPS	LAMP WATTS	FIXTURE WATTS	MOUNTING	SIZE	NOTES
A		HE WILLIAMS 6" LED DOWNLIGHT - ROUND 6DR-TL-L30/840-DIM-UNV-LW-OF-WH-R	LED	120	1	26.9	26.9	RECESSED	6"Ø	4000K COLOR TEMPERATURE; REMODEL KIT
B		HE WILLIAMS VOLTAIRE ARCHITECTURAL WALL PACK VWPH-L30/740-T3-DBZ-SDGL-EM/10WC-DIM-UNV	LED	120	1	36	36	SURFACE WALL MOUNT	12"x12"	VANDAL RESISTANT; 4000K COLOR TEMPERATURE; W/ LED EMERGENCY 90 MINUTE LOW TEMPERATURE BATTERY BACKUP; UL 924 LISTED FIXTURE
-		HE WILLIAMS LED EMERGENCY LIGHT EMERLED-WHT-SDT-D	LED	120	2	1.0	2.0	UNIVERSAL	-	UL 924 LISTED FIXTURE; 90-MINUTE BATTERY BACKUP
-		HE WILLIAMS LED EXIT & EMERGENCY LIGHT EXIT/EMLED-R-WHT-RC-SDT-D	LED	120	2	1.5	3.4	UNIVERSAL	-	UL 924 LISTED FIXTURE; 90-MINUTE BATTERY BACKUP; PROVIDE W/ REMOTE HEAD MODEL WETRHL-T-WHT-HL-MV
-		HE WILLIAMS LED EXIT LIGHT EXIT-R-EM-WHT-SDT-D	LED	120	1	3.8	3.8	UNIVERSAL	-	90-MINUTE BATTERY BACKUP

120/208V 3Ø 4W+G

BUS RATING: 100A

MLO

CONNECTED LOAD	CONDUCTORS	CKT. BREAKER AMPACITY	POSITION	L1 KVA	L2 KVA	L3 KVA	POSITION	CKT. BREAKER AMPACITY	CONDUCTORS	CONNECTED LOAD
EXISTING LOAD	EXISTING WIRING	20	1	-	-	-	2	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	3	-	-	-	4	20	-	SPARE
SPARE	-	20	5	-	-	-	6	20	-	SPARE
SPARE	-	20	7	-	-	-	8	20	-	SPARE
SPARE	-	20	9	-	-	-	10	20	-	SPARE
EXISTING LOAD	EXISTING WIRING	20	11	-	-	-	12	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	13	-	-	-	14	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	15	-	-	-	16	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	17	-	-	-	18	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	19	-	-	-	20	20	(2) #12 CU & (1) #12 GND.	ACCESS CONTROL
SPARE	-	20	21	-	-	-	22	20	(2) #12 CU & (1) #12 GND.	FIRE SHUTTERS
EXISTING LOAD	EXISTING WIRING	20	23	-	-	-	24	20	(2) #12 CU & (1) #12 GND.	CABINET UNIT HEATERS
EXISTING LOAD	EXISTING WIRING	20	25	-	-	-	26	20	(2) #12 CU & (1) #12 GND.	DOOR OPERATORS
EXISTING LOAD	EXISTING WIRING	20	27	-	-	-	28	20	(2) #12 CU & (1) #12 GND.	RECEPTACLES
EXISTING LOAD	EXISTING WIRING	20	29	-	-	-	30	20	(2) #12 CU & (1) #12 GND.	LIGHTING
HP-1 & FCU-1	(2) #12 CU & (1) #12 GND.	25	29	-	-	-	32	20	(2) #12 CU & (1) #12 GND.	EXTERIOR LIGHTING
SPARE	-	20	33	-	-	-	34	20	-	SPARE
SPARE	-	20	35	-	-	-	36	20	-	SPARE
SPARE	-	20	37	-	-	-	38	20	-	SPARE
SPARE	-	20	39	-	-	-	40	20	-	SPARE
SPARE	-	20	41	-	-	-	42	20	-	SPARE
EXISTING PANEL									- kVA TOTAL	

- PROVIDE NEW CIRCUIT BREAKERS FOR ALL NEW OR MODIFIED CIRCUITS; BREAKERS SHALL MATCH EXISTING TYPE AND RATING
- PANEL SCHEDULE SHOWN BASED ON EXISTING DIRECTORY; CONTRACTOR SHALL VERIFY IN FIELD & ADJUST CIRCUIT LAYOUT AS NEEDED BASED ON AVAILABLE POSITIONS

1 Existing Panelboard PP-H (Section 1)  
E001 Scale: None

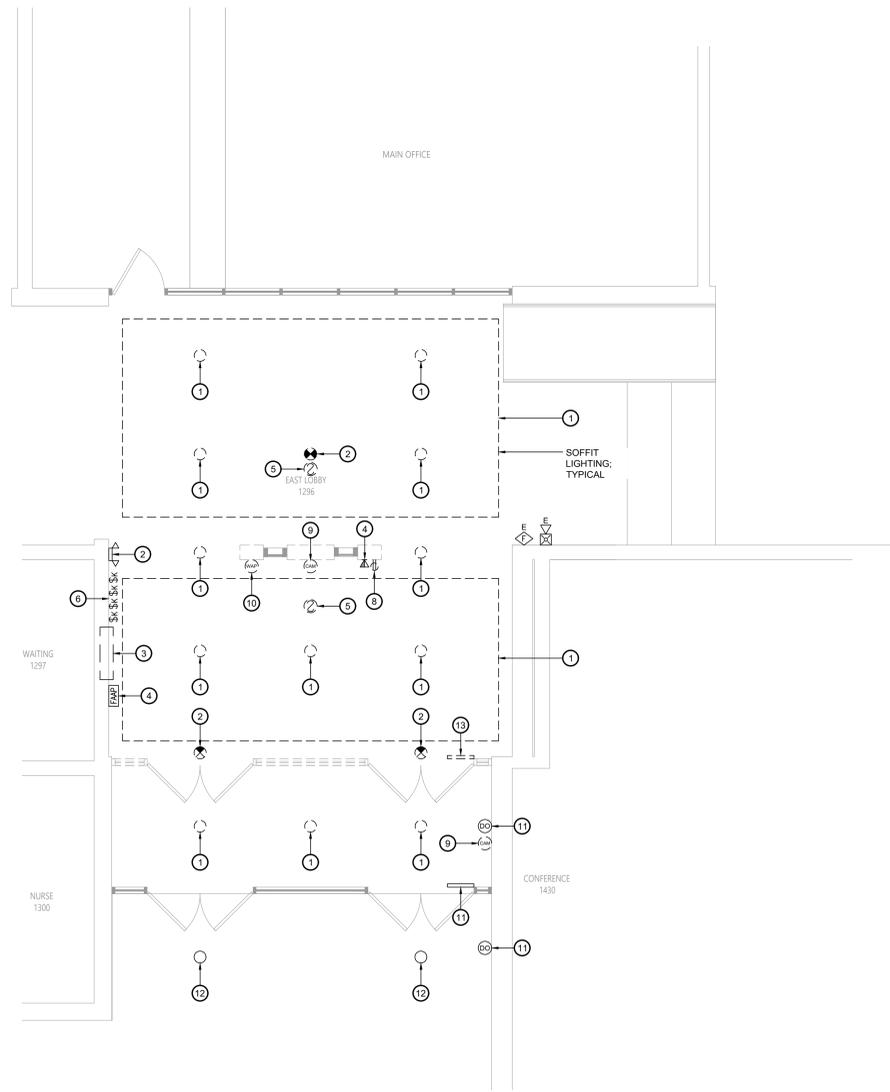
**WIRE COLOR CODING TABLE**

PHASE	WIRES	VOLTAGE	L1	L2	L3	NEUTRAL	GROUND
1	2 (1)	120	BLACK	-	-	WHITE	-
1	2 (1)	208	BLACK	RED	-	-	-
1	3	120	BLACK	-	-	WHITE	GREEN (2)
1	3	208	BLACK	RED	-	-	GREEN (2)
3	4	208	BLACK	RED	BLUE	-	GREEN (2)
3	5	208	BLACK	RED	BLUE	WHITE	GREEN (2)
1	3	277	BROWN	-	-	GRAY	GREEN (2)
1	3	480	BROWN	ORANGE	-	-	GREEN (2)
3	4	480	BROWN	ORANGE	YELLOW	-	GREEN (2)
3	5	480	BROWN	ORANGE	YELLOW	GRAY	GREEN (2)

- NOTES:  
1. FOR DOUBLE INSULATED EQUIPMENT ONLY.  
2. GREEN/YELLOW MAY BE USED:  
- GREEN/YELLOW SHALL BE GREEN WITH ONE OR MORE YELLOW STRIPES.  
- GREEN = 50 TO 70%, YELLOW = 50 TO 30%.  
- GREEN/YELLOW IS THE ONLY COLOR INTERNATIONALLY ACCEPTED FOR USE AS AN EQUIPMENT GROUNDING CONDUCTOR.  
- GREEN OR GREEN/YELLOW MUST ONLY BE USED FOR GROUNDING CONDUCTORS.

**DEVICE MOUNTING HEIGHTS**

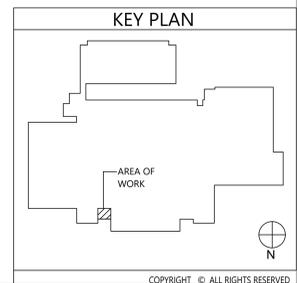
POWER RECEPTACLES (INTERIOR)	18" A.F.F.
POWER RECEPTACLES (EXTERIOR)	36" A.F.F.
POWER RECEPTACLES (@ COUNTER)	44" A.F.F.
LIGHT SWITCHES	44" A.F.F. TO TOP OF DEVICE
DISCONNECT SWITCHES	SEE NEC 404.8(A)
TELEPHONE/DATA RECEPTACLES	18" A.F.F.
TELEPHONE/DATA RECEPTACLES (@ COUNTER)	44" A.F.F.
WALL TELEPHONE RECEPTACLES	48" A.F.F. TO TOP OF DEVICE
FIRE ALARM PULL STATIONS	42" A.F.F. MIN./44" A.F.F. MAX.
FIRE ALARM AUDIO/VISUAL DEVICES	80" A.F.F. MIN./96" A.F.F. MAX.
EXIT LIGHTS (WALL MOUNTED)	12" ABOVE DOOR
EMERGENCY LIGHTS (WALL MOUNTED)	90" A.F.F.
TV & A/V OUTLETS	18" A.F.F.
NOTE: ALL DIMENSIONS ARE TO CENTER OF DEVICE UNLESS OTHERWISE NOTED	



**Key Notes:**

- 1 DISCONNECT, REMOVE & PROPERLY DISPOSE OF LIGHT FIXTURE & ASSOCIATED WIRING & CONDUIT; MAINTAIN EXISTING CIRCUIT AS NEEDED FOR ANY ADJACENT LIGHTING THAT REMAINS IN PLACE, OTHERWISE TERMINATE AT SOURCE
- 2 DISCONNECT, REMOVE & PROPERLY DISPOSE OF EXIT/ EMERGENCY LIGHT & ASSOCIATED WIRING & CONDUIT; MAINTAIN EXISTING CIRCUIT AS NEEDED FOR ANY ADJACENT LIGHTING THAT REMAINS IN PLACE, OTHERWISE TERMINATE AT SOURCE
- 3 EXISTING CABINET HEATER TO BE REMOVED; DISCONNECT, REMOVE & PROPERLY DISPOSE OF ALL ASSOCIATED CONDUITS, WIRING, DISCONNECTS, ETC.; REMOVE ALL CONDUITS AND WIRING BACK TO SOURCE
- 4 EXISTING FIRE ALARM ANNUNCIATOR PANEL & GRAPHIC DISPLAY TO REMAIN; TEMPORARILY REMOVE, PROTECT & STORE DURING CONSTRUCTION; REINSTALL AFTER COMPLETION OF VESTIBULE
- 5 DISCONNECT, REMOVE & PROPERLY DISPOSE OF FIRE ALARM DEVICE & ASSOCIATED WIRING & CONDUIT; REMOVE ALL CONDUITS AND WIRING BACK TO SOURCE; MAINTAIN CONTINUITY OF EXISTING FIRE ALARM CIRCUITS
- 6 DISCONNECT, REMOVE & PROPERLY DISPOSE OF LIGHT SWITCHES & ASSOCIATED WIRING & CONDUIT; REMOVE ALL CONDUITS AND WIRING BACK TO SOURCE; MAINTAIN CIRCUITS FOR RELOCATED SWITCHES
- 7 DISCONNECT, REMOVE & PROPERLY DISPOSE OF RECEPTACLE & ASSOCIATED WIRING & CONDUIT; REMOVE ALL CONDUITS AND WIRING BACK TO SOURCE
- 8 DISCONNECT, REMOVE & PROPERLY DISPOSE OF DATA OUTLET & ASSOCIATED WIRING & CONDUIT; REMOVE ALL CONDUITS AND WIRING BACK TO SOURCE
- 9 DISCONNECT, REMOVE & PROPERLY DISPOSE OF SECURITY CAMERA & ASSOCIATED WIRING & CONDUIT AT ALL VESTIBULE DOORS; REMOVE ALL CONDUITS AND WIRING BACK TO SOURCE
- 10 EXISTING WIRELESS ACCESS POINT TO BE DISCONNECTED, REMOVED & STORED; TEMPORARILY SUPPORT DATA CABLING UNTIL REINSTALLATION IN NEW CEILING
- 11 EXISTING DOOR OPERATOR & ADA PADDLE SWITCH TO REMAIN
- 12 EXISTING LIGHT FIXTURE TO REMAIN
- 13 EXISTING DOOR OPERATOR & ADA PADDLE SWITCH TO BE REMOVED; DISCONNECT, REMOVE & PROPERLY DISPOSE OF ALL ASSOCIATED CONDUITS, WIRING, DISCONNECTS, ETC.; REMOVE ALL CONDUITS AND WIRING BACK TO SOURCE

1  
ED111 Electrical Demolition Plan  
Scale: 1/4" = 1'-0"



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VALLEY CENTRAL SCHOOL DISTRICT  
VALLEY CENTRAL MIDDLE SCHOOL  
2023 CAPITAL PROJECT - PHASE 1



DATE	DESCRIPTION

Drawn By: BIK  
Checked By: BIK  
Proj. #: 44-13-01-06-0-016-023  
CSArch Proj. #: 187-2302.01  
Issued for Bid: 10/18/24

Sheet Title  
**ELECTRICAL DEMOLITION PLAN**

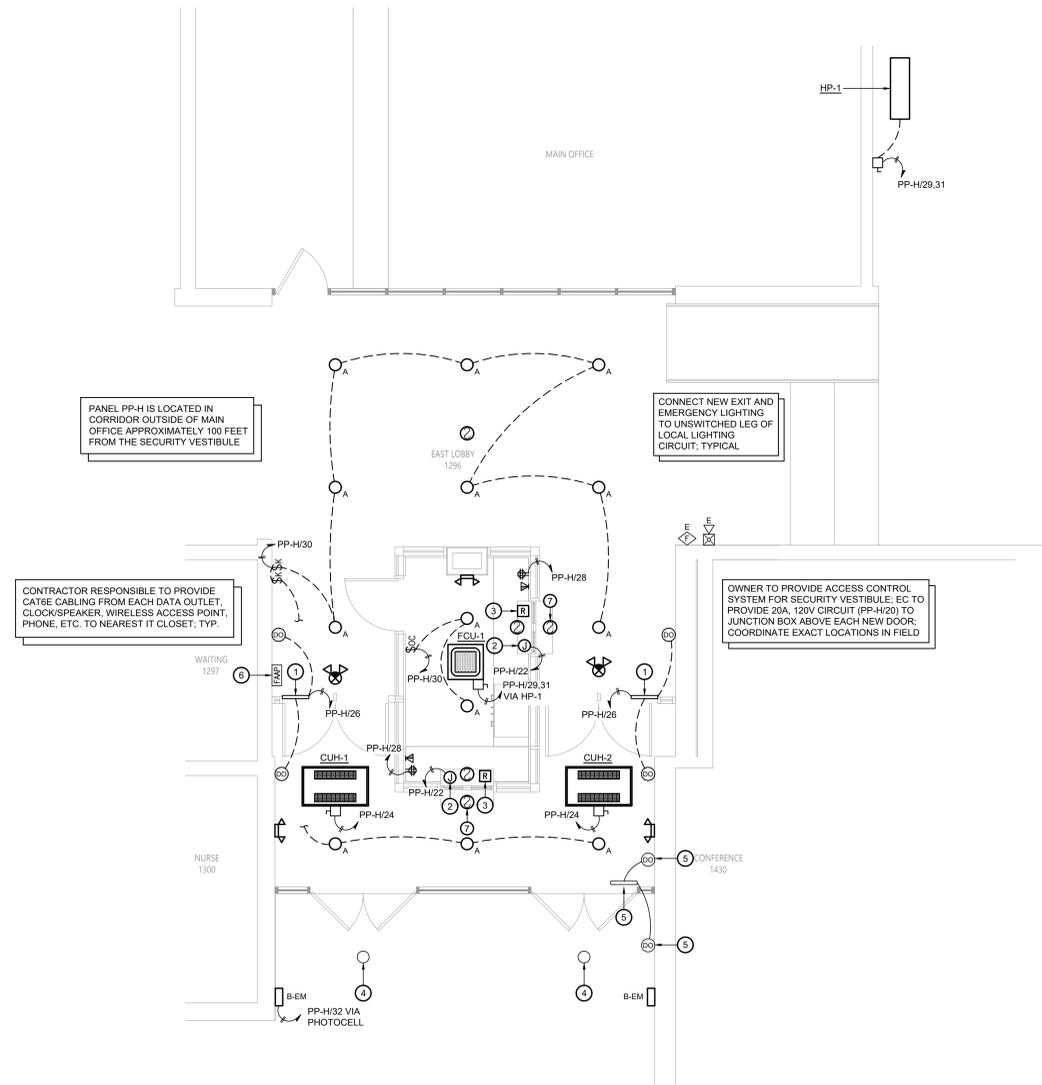
Sheet No.  
**VCMS ED111**

CONSTRUCTION DOCUMENTS

**CSARCH**

**Key Notes:**

- ① ADA DOOR OPERATORS PROVIDED BY GC; EC TO PROVIDE ALL 120V LINE VOLTAGE POWER TO OPERATOR & CONTROL DEVICES; GC TO PROVIDE ALL LOW VOLTAGE CONTROLS
- ② PROVIDE NEW 120V ELECTRICAL CONNECTION FOR FIRE SHUTTER
- ③ FIRE ALARM RELAY; FIRE SHUTTER TO CLOSE UPON ACTIVATION OF FIRE ALARM
- ④ EXISTING LIGHT FIXTURE TO REMAIN
- ⑤ EXISTING DOOR OPERATOR & ADA PADDLE SWITCH TO REMAIN
- ⑥ EXISTING FIRE ALARM ANNUNCIATOR PANEL & GRAPHIC DISPLAY TO REMAIN; TEMPORARILY REMOVE, PROTECT & STORE DURING CONSTRUCTION; REINSTALL AFTER COMPLETION OF VESTIBULE
- ⑦ PROVIDE SMOKE DETECTORS ON BOTH SIDES OF THE AUTOMATIC FIRE SHUTTER AT THE TRANSACTION WINDOW; CONNECT TO THE EXISTING BUILDING FIRE ALARM SYSTEM



1 Electrical Plan  
Scale: 1/4" = 1'-0"



VALLEY CENTRAL SCHOOL DISTRICT  
VALLEY CENTRAL MIDDLE SCHOOL  
2023 CAPITAL PROJECT - PHASE 1

Project Title



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Drawn By: BJK  
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